

Jarrell, Noble

173281

From: Ramirez, Delia
Sent: Thursday, December 01, 2005 5:55 PM
To: Jarrell, Noble
Subject: 09/165460

Hi,
I would like to request the following interference search:

1. SEQ ID NO:1 and 3 in the nucleic acid databases
2. SEQ ID NO:2 and 4 in the protein databases

Thank you very much,

Delia M. Ramirez, Ph.D.
Patent Examiner
Recombinant Enzymes-Art Unit 1652
USPTO
400 Dulany Street, Remsen Bldg., 2D74, Mail room 2C70
Alexandria, VA 22314
(571) 272-0938
delia.ramirez@uspto.gov

Mike
12/9/05 2/NA
5 PR 2AA
SON
CompuGen

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: December 8, 2005, 16:30:04 : Search time 316.593 Seconds
(without alignments)
10246.741 Million cell updates/sec

Title: US-09-165-460A-1

Perfect score: 1825

Sequence: 1 acctactctttttctatct.....aaaataaacgattaaacatt 1825

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*

1: /cgn2_6/ptodata/1/ina/1 COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6 COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
6: /cgn2_6/ptodata/1/ina/PPCTUS COMB.seq.*
7: /cgn2_6/ptodata/1/ina/PP COMB.seq.*
8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1802	98.7	1825	US-09-184-964-1	Sequence 1, Appli
2	354.4	19.4	1473	US-09-248-796A-5807	Sequence 5807, Ap
3	136	7.5	686	US-08-998-416-929	Sequence 929, App
4	117.4	6.4	2968	US-09-022-699-1	Sequence 1, Appli
5	88.2	4.8	684	US-09-533-559-7530	Sequence 7530, Ap
6	79.8	4.4	649	US-09-533-559-454	Sequence 454, App
7	54.6	3.0	601	US-09-949-016-172190	Sequence 172190,
8	54.6	3.0	601	US-09-949-016-172191	Sequence 172191,
9	54.6	3.0	601	US-09-949-016-172192	Sequence 172192,
10	54.6	3.0	601	US-09-949-016-172193	Sequence 172193,
11	54.6	3.0	7218	US-08-232-463-14	Sequence 14, Appli
12	54.6	3.0	102008	US-09-949-016-16617	Sequence 16617, A
13	52.2	2.9	147382	US-09-949-016-14624	Sequence 14624, A
14	51.6	2.8	1641	US-08-300-903A-8	Sequence 8, Appli
15	51.6	2.8	1641	US-08-988-197-8	Sequence 8, Appli
16	51.6	2.8	1641	US-10-385-072-8	Sequence 12896, A
17	50.8	2.8	451924	US-09-949-016-12896	Sequence 12896, A
18	50.8	2.8	451925	US-09-949-016-17305	Sequence 17305, A
19	50.4	2.8	187595	US-09-949-016-15546	Sequence 15546, A
20	50	2.7	601	US-09-949-016-135595	Sequence 135595,
21	50	2.7	601	US-09-949-016-135596	Sequence 135596,
22	49.6	2.7	1024	US-09-328-475C-50	Sequence 50, Appli
23	49.6	2.7	1459	US-09-537-654-3	Sequence 3, Appli
24	49.4	2.7	154600	US-09-949-016-14757	Sequence 14757, A

Sequence 5, Appli
Sequence 14, Appli
Sequence 12505, A
Sequence 14207, A
Sequence 12900, A
Sequence 12412, A
Sequence 13291, A
Sequence 16631, A
Sequence 16632, A
Sequence 15604, A
Sequence 12306, A
Sequence 17578, A
Sequence 3, Appli
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Sequence 16, Appli
Sequence 16, Appli
Sequence 16, Appli
Sequence 11, Appli

ALIGNMENTS

RESULT 1
US-09-184-964-1
; Sequence 1, Application US/09184964
; Patent No. 6391574
; GENERAL INFORMATION:
; APPLICANT: Rine, Jasper D.
; APPLICANT: Boyartchuk, Victor L.
; APPLICANT: Ashby, Matthew N.
; TITLE OF INVENTION: AFCl AND RCe1: ISOPRENYLATED CAAX
; TITLE OF INVENTION: PROCESSING ENZYMES
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 2200 Sand Hill road, suite 100
; CITY: Menlo Park
; STATE: CA
; COUNTRY: USA
; ZIP: 94025

COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/184,964
; FILING DATE: 03-NOV-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/902,774
; FILING DATE: 30-JUL-1997
; APPLICATION NUMBER: 60/023,491
; FILING DATE: 07-AUG-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Suyat, Reginald J.
; REGISTRATION NUMBER: 28,172
; REFERENCE/DOCKET NUMBER: 09272-006004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/322-5070
; TELEFAX: 650/854-0875
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1825 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: Genomic DNA
US-09-184-964-1

Query Match		98.7%;	Score 1802;	DB 3;	Length 1825;
Best Local Similarity		99.9%;	Pred. No. 0;		
Matches 1824;		Conservative	0;	Mismatches	0; Indels 2; Gaps 2;
QY	1	ACCTACCTTTTTTCTATCTTCAACACGAAAGCGCTTACACACACACACATACATCT	60		
DB	1	ACCTACCTTTTTTCTATCTTCAACACGAAAGCGCTTACACACACACACATACATCT	60		
QY	61	ACATACATACATACAAATATACATATATGTAACCTTGATATATCTTCTTAACCAAA	120		
DB	61	ACATACATACATACAAATATACATATATGTAACCTTGATATATCTTCTTAACCAAA	120		
QY	121	AAGAGCAATTAACCTTTTCCCTCTTTTCTACGTCATTTACTCAAAAACTCTTAATTCCT	180		
DB	121	AAGAGCAATTAACCTTTTCCCTCTTTTCTACGTCATTTACTCAAAAACTCTTAATTCCT	180		
QY	181	TCGTCCTCTGTTCTGCCATTTTCTCCAGAAAAAATCGAGGGAATAAATAAAAAAAGAC	240		
DB	181	TCGTCCTCTGTTCTGCCATTTTCTCCAGAAAAAATCGAGGGAATAAATAAAAAAAGAC	240		
QY	241	AACGAACAGAGAAAAAGTTTCGGGAATTAATAACCACTTCTATAATTAACAGGAAAAAGGA	300		
DB	241	AACGAACAGAGAAAAAGTTTCGGGAATTAATAACCACTTCTATAATTAACAGGAAAAAGGA	300		
QY	301	AGGAAAAAAGAGGAGAAATPAGAAAACTGCAGGCCCTTTATTATGTTTGAATCTTAAGACG	360		
DB	301	AGGAAAAAAGAGGAGAA-AGAAAACTGCAGGCCCTTTATTATGTTTGAATCTTAAGACG	359		
QY	361	ATTCTCGACCATCTAATATCCGTTGGAAATTAATCATTTTCTGGGTTCTCGATTGCCCAA	420		
DB	360	ATTCTCGACCATCTAATATCCGTTGGAAATTAATCATTTTCTGGGTTCTCGATTGCCCAA	419		
QY	421	TTTTCTTTTCAATCTTACTTTGAGGTACAGACAGTACAGAAAGCTATCTGAAACAAAGTTG	480		
DB	420	TTTTCTTTTCAATCTTACTTTGAGGTACAGACAGTACAGAAAGCTATCTGAAACAAAGTTG	479		
QY	481	CCACCTGTGCTGGAAGACGAAATTTGATGAACTTTTTCATAAAATCAAGGAACACTCTCC	540		
DB	480	CCACCTGTGCTGGAAGACGAAATTTGATGAACTTTTTCATAAAATCAAGGAACACTCTCC	539		
QY	541	CGGGCCCAAGGCCAAGTTCTCCATTTTTCGGTGAGCTCTATAACCTAGCCCAAAAGCTAGTT	600		
DB	540	CGGGCCCAAGGCCAAGTTCTCCATTTTTCGGTGAGCTCTATAACCTAGCCCAAAAGCTAGTT	599		
QY	601	TTCAATCAAAATACGACCTTTCCCTAAATCTGSCACATGSCCGTTCTTTTATTGAATGCA	660		
DB	600	TTCAATCAAAATACGACCTTTCCCTAAATCTGSCACATGSCCGTTCTTTTATTGAATGCA	659		
QY	661	GTCTGCGCAGTTCAGATTTTATATGTTCTCCACTGTGCGCAGAG-TTTATGCTTCTTTGGG	719		
DB	660	GTCTGCGCAGTTCAGATTTTATATGTTCTCCACTGTGCGCAGAGTTTATGCTTCTTTGGG	719		
QY	720	TCTCTTATCCAGTTTGTCTACCTTGGTTGATTTTGCCACTCTCTTACTATAGCCATTTTGT	779		
DB	720	TCTCTTATCCAGTTTGTCTACCTTGGTTGATTTTGCCACTCTCTTACTATAGCCATTTTGT	779		
QY	780	CCTGGAAGAAAAATTTGGTTTCAATAAATTCAGCGTCCAACTATGATACCGATATGAT	839		
DB	780	CCTGGAAGAAAAATTTGGTTTCAATAAATTCAGCGTCCAACTATGATACCGATATGAT	839		
QY	840	CAAGAGTCTGACTTTGGCGTATGCTATTGGTGGGCCCAATCTTTACCTGTTCTCTTAAGAT	899		
DB	840	CAAGAGTCTGACTTTGGCGTATGCTATTGGTGGGCCCAATCTTTACCTGTTCTCTTAAGAT	899		
QY	900	CTTTGATAAATTCCTACTGATTTTCTTTGGTACATTTATGTTCTTCTTTGTCGTGTCGA	959		
DB	900	CTTTGATAAATTCCTACTGATTTTCTTTGGTACATTTATGTTCTTCTTTGTCGTGTCGA	959		
QY	960	AATCTTAGCCATGACAAATCATTCAGCTTCATCATGCCCAATGTTTAATAGTTCACTCC	1019		
DB	960	AATCTTAGCCATGACAAATCATTCAGCTTCATCATGCCCAATGTTTAATAGTTCACTCC	1019		
QY	1020	ATTGAGGACGGTGAACTGAAAAAATCTATTGAAAGTTTGGCCGATAGAGTTGGGTTCCC	1079		

DB	1020	ATTGAGGACGGTGAACTGAAAAAATCTATTGAAAGTTTGGCCGATAGAGTTGGGTTCCC	1079		
QY	1080	TCTAGATAAGATTTTGTTCATTTGACGGCTCAAAAAGATCTTCTCAATCAAAACGCATATTT	1139		
DB	1080	TCTAGATAAGATTTTGTTCATTTGACGGCTCAAAAAGATCTTCTCAATCAAAACGCATATTT	1139		
QY	1140	CACAGGTTTGCATTCACCTCCCAAGAGAAATCTGTTTGTTCGACACTTTAGTGAACAGTAA	1199		
DB	1140	CACAGGTTTGCATTCACCTCCCAAGAGAAATCTGTTTGTTCGACACTTTAGTGAACAGTAA	1199		
QY	1200	TTCTACTGATGAAATTTAGCGCTGTTTGGCCCATGAAATCGGTCACTGTCGCAAAAAACCA	1259		
DB	1200	TTCTACTGATGAAATTTAGCGCTGTTTGGCCCATGAAATCGGTCACTGTCGCAAAAAACCA	1259		
QY	1260	CATCGTTTAATATGTCATCTTTTAGTCAATTCGACACCTTCCCTCAATTTCTCCCTTTTCAC	1319		
DB	1260	CATCGTTTAATATGTCATCTTTTAGTCAATTCGACACCTTCCCTCAATTTCTCCCTTTTCAC	1319		
QY	1320	CAGCATCTACAGAAATACATCAATTTTACAAACCTTCCGCTTTTCTTAGAAGAGTCCAC	1379		
DB	1320	CAGCATCTACAGAAATACATCAATTTTACAAACCTTCCGCTTTTCTTAGAAGAGTCCAC	1379		
QY	1380	TGCGCAGTTTGTGATCCGCTTATCACTAAGGAAATCCCAATTTATCATTTGGATTTATGTT	1439		
DB	1380	TGCGCAGTTTGTGATCCGCTTATCACTAAGGAAATCCCAATTTATCATTTGGATTTATGTT	1439		
QY	1440	ATTTAACGACTTATTAATCCACTCGAATGTCGCAATTCGATGATGAGTTTAATTTTC	1499		
DB	1440	ATTTAACGACTTATTAATCCACTCGAATGTCGCAATTCGATGATGAGTTTAATTTTC	1499		
QY	1500	CAGAACTCATGAATATCAAGCTGATCTTATCTAATAAATTTGGGCTACAAGCAAAATCT	1559		
DB	1500	CAGAACTCATGAATATCAAGCTGATCTTATCTAATAAATTTGGGCTACAAGCAAAATCT	1559		
QY	1560	ATGTAGGGCTCTAAATTTGATCTCAAAATCAAAACCTTTCCACCATGAATGTAGATCCTCT	1619		
DB	1560	ATGTAGGGCTCTAAATTTGATCTCAAAATCAAAACCTTTCCACCATGAATGTAGATCCTCT	1619		
QY	1620	GTATTTCTAGCTATCATTTTCCGATCCAACTCTAGCTGAAAGATCGACCGCTCTAGACTA	1679		
DB	1620	GTATTTCTAGCTATCATTTTCCGATCCAACTCTAGCTGAAAGATCGACCGCTCTAGACTA	1679		
QY	1680	TGTTAGTGAAGAGAGAAAACTAACTATAGATACACATATTAGCATGTACCGTTAAA	1739		
DB	1680	TGTTAGTGAAGAGAGAAAACTAACTATAGATACACATATTAGCATGTACCGTTAAA	1739		
QY	1740	TTCAGCTTCCGTTATGTTTATCTCATACATACACAGGTATCTACTAAGAATAAAGG	1799		
DB	1740	TTCAGCTTCCGTTATGTTTATCTCATACATACACAGGTATCTACTAAGAATAAAGG	1799		
QY	1800	AAAGAAAAAATAAACGATTAACATT	1825		
DB	1800	AAAGAAAAAATAAACGATTAACATT	1825		

RESULT 2
US-09-248-796A-5807
; Sequence 5807, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstock et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICANS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; CURRENT FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 5807

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; LENGTH: 1473
; TYPE: DNA
; ORGANISM: Candida albicans
US-09-248-796A-5807

Query Match      19.4%;   Score 354.4;   DB 3;   Length 1473;
Best Local Similarity 56.2%;   Pred No. 8.2e-76;
Matches 75;   Conservative 0;   Mismatches 541;   Indels 48;   Gaps 3;

Qy      362  TTCTCGACCAATCCCTAAATATATCCCGGTGGAAATTAATCATTTCTGGGTCTCTCGATTCGCCAAT 421
Db      164  TTCTTGACTCACCATCAATTAATTGGAAACAATATTGTGTGGCTTTACTATTGGCCAAT 223

Qy      422  TTTCTTTTGGAAATCTTACTTCGAGTACAGACAGATACCAAGACTATCTGAACAACAAAGTTGC 481
Db      224  ATGTTTTCGAGACTTATTAGATCTTAGACAAATATAGAGTGTACAACCTGAAAACAGCAC 283

Qy      482  CACCTGTGCTGGAGACGAAATGATCATGAAACTTTTCAATAATCAAGGAACTACTCCC 541
Db      284  CAAAGTCAATTGAAAAGAAGTTTCAACAAGAAACATTCGACAAATCCCAAGAGATTCCC 343

Qy      542  GGGCCAAAGGCCAGTCTCCATTTTCGGTGACGCTATAAACCCTAGGCCAAAAAGCTAGTTT 601
Db      344  GTGCTAAGCACAGTTTTTCAGTCTTTTCCAGTAGCTTGTTCAGAACTTGGCAA 403

Qy      602  TCATCAAAATAGACCTCTTCCCTAAAATCTGGCCACATGCGCGTTCTTTTATTGAATGCAG 661
Db      404  TCTTTAAATATAGCTTGTGTACCTAAAAACCTGGACATTTGGCTGGGACTATCATGAAGAGTA 463

Qy      662  TCCTGCCAGTCAGATTTTCATATGTCCTCCACTGTGCGCACAGAGTTTATGCTTCTTGGGTC 721
Db      464  GTGCTGCAGTTTACCTAAGGCCATGAGTGGTGTATTACTCAATCGCTTTTGTGTTT 523

Qy      722  TCTTATCC---AGTTTGCTACCTGTTGATTTGGCCACTCTCTTACTATAGCAATTTTG 778
Db      524  TCACCACCCAAATCTTGACAACTTTGATTTGGATTACCATTGAGTTACTACAAAAAATTG 583

Qy      779  TCCTGGAAGAAAAATTTGGTTTCAATTAATTTGACCGTCCAACTATGATCACCAGATATGA 838
Db      584  TGTTTAGAGGAGAGATGGGATTTCAACAAGCAAAACAATTTGGTTTGTGGGTAGGCGATATG 643

Qy      839  TCAAGAGTCTGACTTTGGCGGTATGCTATTTGGTGGCCCAATCCCTTACTCTTCTTAAAGA 898
Db      644  TAAAGGAATGGGTATCTCTATAGTTTGGATGCGCCAGTTATTTGCCGATTTTGAAGA 703

Qy      899  TCCTTGATAAATCCCTACTAGTTTCCTTTGGGTACATATATGGCTTCTCTGTTCTGTTGTCC 958
Db      704  TTAATTGATTTACTTTGATGATAAGTTTCATTTTCTATCTCATGGGATTCATTTTAGTAGTCA 763

Qy      959  AAATCTTAGCCATGACATCATTTCCAGTCTTCATCATGCCCATGTTTAAATAAGTTCACTC 1018
Db      764  ACTTGAATTGCTATGACCATAGTTCCAACATTTGATTTAGCCATTATTTAACAAAGTTTACTC 823

Qy      1019  CATTGGAGGACGGTGAACCTGAAAAAATCTATTGAAAGTTTGGCCGATAGAGTTGGGTTC 1078
Db      824  CCTTGGAAAGATGGTGAGTTGAAACC GCCATTGAAAATTAGCTTTAGAACAAAAATTC 883

Qy      1079  CTCTAGATATAGATTTTTGTCTATTGACGGCTCAAAAAGATCTTCTCATTTCAAAACGATATT 1138
Db      884  CATTGACAAAAATTTGTTGTCTATTGATGGATCAAAAGATGCTCCCAATTCAAATGCTTATT 943

Qy      1139  TCACAGGTTTGGCAATTCACCTCCCAAGAGAAATGTTTGTTCGACACTTTAGTGAACAGTA 1198
Db      944  TCACAGGATTTGCCATGA--GCAAAACAATTTGTTTGTTCACACTTTAATTGAACACA 1000

Qy      1199  ATTTCTACTGATGAAATTTACGGCTGTTTTTGGCCATGAAATCGGTCACTGGCAAAAAAACC 1258
Db      1001  ATTTCAACTGAAGAACTGTTGCTGCTCTTGGCTCATGAAATTTGGTCACTGGAAATTTGAACC 1060

Qy      1259  ACATCGTTAATATGGTCACTTTTAGTCAATTGACACCTTCCTCATTTTCTCCCTTTTCA 1318
Db      1061  ATTTGCCAAAGATGATCAACCATGATGAAGGCCAATTTGTTTGTGATTTTTCCTGTGATT 1120

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; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; ORIGINAL SOURCE:
; ORGANISM: PAG1577RP
; US-08-998-416-929

Query Match          7.5%; Score 136; DB 3; Length 686;
Best Local Similarity 52.1%; Pred. No. 3.5e-23;
Matches 354; Conservative 0; Mismatches 320; Indels 6; Gaps 2;

Qy 490 CTGGAAGACGAATGATGATGAATCTTTTCATAAATCAAGGAATCTCCGGGCGCAAG 549
Db 675 CTGGAGGGCGTTATTGATAAGAAACAATGCAAAAGACGAGCGGTACAGCGGGCGCAAG 616
Qy 550 GCCAAGTCTTCCATTTTCGGGTGACGCTCTATAACCTAGCCCAAAAGCTAGTTTTCATCAA 609
Db 615 TAACGCTACCGTATGTTAGAGATCTGGTTCCTGGGACTAAATCTGGTAAATGATTAAAG 556
Qy 610 TAGCAGCTCTTCCCTAAATCTGGACATGGCCGCTTCTTTATTGATGAGTCTCTGCCA 669
Db 555 TAGCAGCTGGCTGCACGAGATGTGGAACTTAGGAGTGGCGGTAGGTGAGCG--CATGCC 499
Qy 670 GTCAGATTTTCATATGTTCTCCACTGTGCGACAGATTTATGCTTCTTGGGTCTCTTATCC 729
Db 498 GCCATGCTGTGCGAGTATCGACATCTCCAGTCTGCTACTTTTGTATCGTCTACCTA 439
Qy 730 AGTTTGTCTACCTTGTGTTGATTTTCCCACTCTCTTACTATAGCCATTTTGTCTGGAAGAA 789
Db 438 CAGCTGAAGTGTGGCAGGGGTTGTTGGGAGCTATTACTACAACTTTTGTGCTCGAGGAA 379
Qy 790 AAATTTGGTTTCAATAAATGACGCTCCAACTATGATCACCAGATATGATCAGAGTCTG 849
Db 378 AAATTCGGGTTCAACAGTCCACGGTCAAGCTATGGCTAACGGACCGAGCTAAAAGTGT 319
Qy 850 ACTTTGGCGTATGTAATTTGGGCGCAATCCTTTACCTGTTCTTAAGATCTTTTGATAA 909
Db 318 ATGATCTCTCCATGATTAACCACTCTCGAGCTATGCGCTGTGAAGTAAATGAAAG 259
Qy 910 TTCCCTACTGATTTCTTTTGGTACATPATGCTCTCTTTGTCGTGTGTCGATTTTCAAAATCTTAGCC 969
Db 258 TTCTCGACTGGCTTCGTGAGTCTCTATCTGATGCTGTCTTCTATCTGTTCTGTTGCTG 199
Qy 970 ATGCAATCATTCAGTCTTCATCATGCCCATGTTTAAATAGTTCACATTCAGTGGAGGAC 1029
Db 198 ACTGCTCTTCAGCCAGTGT---TTACAGCTTTATTCAACAAGCTCACCCCGTTGGAAGAC 142
Qy 1030 GGTGAAGTCAAAAATCTATTGAAAGTTTGGCCGATAGAGTTGGGTTTCCCTCTAGATAAG 1089
Db 141 GGGAGCTGAAGAGCTCGATTGTGGAATTAAGCAACAGATCAACTTCCCACTGGACAA 82
Qy 1090 ATTTTGTGATAGAGCTCAAAAGATCTTCTCATTTCAACGCAATTTTACAGGTTTG 1149
Db 81 ATCTACCTTTTGGAGCGCTCGCGCGCTCTGGGCACTCAATGGTATTTTACCGGGCTA 22
Qy 1150 CCATTACCTCCAGAGAT 1169
Db 21 CCGTTTTTCTCTAAACGGAT 2

RESULT 4
US-09-022-699-1
; Sequence 1, Application US/09022699
; Patent No. 6060277
; GENERAL INFORMATION:
; APPLICANT: KIKLY, KRISTINE
; APPLICANT: SOUTHAN, CHRISTOPHER
; APPLICANT: KNAB, ANNE
; TITLE OF INVENTION: Human APO1
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RATNER & PRESTIA
```

```
; STREET: P.O. BOX 980
; CITY: VALLEY FORGE
; STATE: PA USA
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/022,699
; FILING DATE: 12-FEB-1998
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER: 97304440.7
; FILING DATE: 12-JUN-97
; ATTORNEY/AGENT INFORMATION:
; NAME: PRESTIA, PAUL F
; REGISTRATION NUMBER: 23,031
; REFERENCE/DOCKET NUMBER: GH-70380
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-407-0700
; TELEFAX: 610-407-0701
; TELEX: 846169
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2968 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-09-022-699-1

Query Match          6.4%; Score 117.4; DB 3; Length 2968;
Best Local Similarity 50.5%; Pred. No. 1.7e-18;
Matches 370; Conservative 0; Mismatches 351; Indels 12; Gaps 3;

Qy 471 AACAAAGTTGCCACCTGTCTGSAAGACGAAATTTGATGATGAACATTTTTCATAAAATCAAG 530
Db 177 AACTCATGTACACCGGAGTTAGGACAGATCATGATTTCTGAAACATTTTGAGAAATCTCG 236
Qy 531 GAACACTACCCGGGCCAAGGCTTCCATTTTCGGTGAGCTCTATAAACCCTAGCCCA 590
Db 237 ACTCTATCACTGGATAAAAGCACTTTTCAGTCTCTGTCAGGACTCTATTTCAGAGACTGA 296
Qy 591 AAGCTAGTTTTCATCAAAATAGACCTCTTCCCTAAATCTGGCACATGGCCGTTCTTT 650
Db 297 AGGCACTCTTATTTCTCTTTTGGAGGAATACCTTATCTCTGGAGACTTTCTGGACGGTT 356
Qy 651 ATTGAATGCAGTCTCCAGTCAGATTTTCATATGGTCTCCACTGTGCGACAGAGTTTATG 710
Db 357 CT--GTGGTATGCTGGCTTTGGACAGAAATAGAGATCACTCAGTCCCTGGTGTTCIG 414
Qy 711 CTTCTTTGGGTCTCTTATCCAGTTTGTCTACCTTTGGTTGATTTGGCCACTCTCTTACTATAG 770
Db 415 CTGTTGCTAGACT-----TTTCAGTGCAITTAGCTGTTTGGCATGGAGTCTTTATAA 467
Qy 771 CCATTTTGTCTGGGAAGAAAATTTGGTTTCAATAAATTTGACCGTCCAACTATGGATCAC 830
Db 468 TACTTTTGTGATAGAAAACATGGCTTCAATCAACAGACTTTGGGGTCTTCTCATGAG 527
Qy 831 CGATATGATCAAGAGTCTGACTTTTGGCGTATGCTATTGGTGGGCCCAATCCCTTACCTGTT 890
Db 528 AGATGCAATCAAGAAATTTGTGTGACTCAGTGATTTTGTGGCTGTGTCTTCACTTCT 587
Qy 891 CCTTAAGATCTTTGATAAAATTCCTACTGATTTCTTTTGGTACATTAATGCTCTTCTGTT 950
Db 588 ACTTTACATTTATAAAATTTGGGGGTGACTATTTTTTTTATTATGCTGCTGTTTCAATT 647
Qy 951 CGTTGTCCAAATCTTAGCCATGACATCATTCAGTCTTCATCATGCCCATGTTTATAA 1010
Db 648 AGTTGTGCTCTGTTTCTTGTGTCAAATCTATGCTGATTAATTTGCCCTTTATTGACAA 707
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Qy 1011 GTTCACTCCATTGGAGCGGTGAACGAAATAATCTATTGAAGTTTGGCGGATAGAT 1070
 Db 708 ATTACACCTCTGCTGAGGAAAGCTTAAAGAAATAATGAAGTAATGGCAAGAGAT 767
 Qy 1071 TGGGTTCCTCTAGATAAGATTTTGTGTCATTCAGCGCTCAAAAAGATCTTCTCATTTCAA 1130
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 Qy 1131 CGCATTTTCACAGTTTGGCAATTCACCTCAAGAGAAATGTTTGTTCGACACTTTAGT 1190
 Db 828 TGCTTTATTTATGGCTT---CTTCAAGACAAGCGAATAGTTTGTGTTGACACTTACT 884
 Qy 1191 GAACAGTAATCT 1203
 Db 885 AGAGAGTACTCT 897

RESULT 5

US-09-533-559-7530
 ; Sequence 7530, Application US/09533559
 ; Patent No. 6902887
 ; GENERAL INFORMATION:
 ; APPLICANT: Randy M. Berka
 ; APPLICANT: Michael W. Rev
 ; APPLICANT: Jeffrey R. Shuster
 ; APPLICANT: Sakari Kauppinen
 ; APPLICANT: Ib Groth Clausen
 ; APPLICANT: Peter Bjarke Olsen
 ; TITLE OF INVENTION: Methods For Monitoring Multiple Gene
 ; FILE REFERENCE: 5849.200-US
 ; CURRENT APPLICATION NUMBER: US/09/533,559
 ; EARLIER FILING DATE: 2000-03-22
 ; EARLIER APPLICATION NUMBER: 09/273,623
 ; EARLIER FILING DATE: 1999-03-22
 ; NUMBER OF SEQ ID NOS: 7860
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 7530
 ; LENGTH: 684
 ; TYPE: DNA
 ; ORGANISM: Tricoderma reesei
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: (1)...(684)
 ; OTHER INFORMATION: n = A,T,C or G
 US-09-533-559-7530

Query Match 4.8%; Score 88.2; DB 3; Length 684;
 Best Local Similarity 53.8%; Pred. No. 1.2e-11;
 Matches 217; Conservative 0; Mismatches 184; Indels 2; Gaps 2;
 Qy 752 TGCCACTCTCTTACTATAGCCATTTTGTCTCGAAGAAAAATTTGGTTTCAATAATGA 811
 Db 221 TGCCAGCCGATCTACAGCACTTTGTCTCGAGAGAGTTTGGCTTCAACAGCAGA 280
 Qy 812 CGGTCCAACTATGATACCGATATGATCAAGAGTCTGACTTGGCGTATGCTATTGGTG 871
 Db 281 CGCCGGGCTCTTCACTCTCCGACATGGTCAAGACCAACCTGCTCACGCCGCTCCTCATGC 340
 Qy 872 GCCCAATCTTTACTGTTCTTAAAGATCTTGAATAATCCCTACTCATTTCTTTGGT 931
 Db 341 CCGCGATCTCGCCGGTTTCTCAAGATCATCCAGAGACGGGCTCGAGATTGTCTTCT 400
 Qy 932 ACATTATGCTTCTTGTGTTGTCGTTGTCGAAATCTTAGCCATGACATCAATCCAGTCTTCA 991
 Db 401 ACACCTGGGTCTTACTCCCGGCATCCAGCTCCTGATGACTACCTCTACCCACCTTCA 460
 Qy 992 TCATGCCCATGTTTAAATAGTTCACTCAATTTGGAGGACGGTGAACCTGAAAAATCTATTG 1051
 Db 461 TCCAAACC-TGTTCAACAAGCTCTCCCCCTCGAGGACGGAGCTTCAAGACCAANGTC 519
 Qy 1052 AAAG-TTTGGCCGATAGAGTTGGGTTCCTCTAGATAGATTTTGTTCATTGACGGCTCA 1110

Db 520 AATGAATTTGGGCGCCCTTCAAGTTCCCTCGACGAACCTGATGTGTCATTGATGGTAGC 579
 Qy 1111 AAAAGATCTTCTCTATTCAAAAGCAATATTTACAGGTTTGCCAT 1153
 Db 580 AAGCGCAGNCTCATCTTCAACGCCCTTTTCTACNGGCTCCGT 622
 RESULT 6
 US-09-533-559-454
 ; Sequence 454, Application US/09533559
 ; Patent No. 6902887
 ; GENERAL INFORMATION:
 ; APPLICANT: Randy M. Berka
 ; APPLICANT: Michael W. Rev
 ; APPLICANT: Jeffrey R. Shuster
 ; APPLICANT: Sakari Kauppinen
 ; APPLICANT: Ib Groth Clausen
 ; APPLICANT: Peter Bjarke Olsen
 ; TITLE OF INVENTION: Methods For Monitoring Multiple Gene
 ; FILE REFERENCE: 5849.200-US
 ; CURRENT APPLICATION NUMBER: US/09/533,559
 ; EARLIER FILING DATE: 2000-03-22
 ; EARLIER APPLICATION NUMBER: 09/273,623
 ; EARLIER FILING DATE: 1999-03-22
 ; NUMBER OF SEQ ID NOS: 7860
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 454
 ; LENGTH: 649
 ; TYPE: DNA
 ; ORGANISM: Fusarium venenatum
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: (1)...(649)
 ; OTHER INFORMATION: n = A,T,C or G
 US-09-533-559-454

Query Match 4.4%; Score 79.8; DB 3; Length 649;
 Best Local Similarity 53.7%; Pred. No. 1.3e-09;
 Matches 187; Conservative 0; Mismatches 158; Indels 3; Gaps 1;
 Qy 1033 GAACGAAAAAATCTATTGAAAGTTTGGCGGATAGAGTTGGGTTCCCTCTAGATAAGATT 1092
 Db 1 GAGCTCAAGACCAAGGTTGATCTCTTGGCGGAGCCTCAAGTTCCCTCGACGAGCTC 60
 Qy 1093 TTTGTCAATGACGGCTCAAAAAGATCTTCTCATTTCAAAAGCATATTTTCACAGGTTTGCCA 1152
 Db 61 TACGTCAATGATGGAAGCAAGCGGCCACTCAAAACGCTATTTCTTTGGTCTTCCC 120
 Qy 1153 TTCACTCCAGAGAAATTTTGTTCGACACTTTAGTGAACAGTAATTTCTACTGATGAA 1212
 Db 121 TGAAG---AAGCACTTTGATCTAGCATCTCTGATTGANAAGAGGAGCCCGATGAG 177
 Qy 1213 ATTACGGCTGTTTGGCCCATGAAATCGGTCACTGGCAAAAAACCATCGTTTAATATG 1272
 Db 178 GTCTGCGCGTTCTTGGCGCAGAGTTGGGTCACTGGAAGCTTGGCCATATACCACTC 237
 Qy 1273 GTCACTTTAGTCAATTTGACACCTTCTCTCATTTTCTCCCTTTTCCAGCATCTACAGA 1332
 Db 238 TTCGGTATCTCTCAGGCTCACTCTTTCTACATCTTCTCTCTCTCTCTCTCTCATCAAC 297
 Qy 1333 AATACATCAATTTTACAACACTTTCGGCTTTTCTTACAGAGATCCACT 1380
 Db 298 AACCACTCTGTACTCATCTTTCGGTTTCTCTCAAGAGCATCCCAAT 345

RESULT 7

US-09-949-016-172190/c
 ; Sequence 172190, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.

RESULT 15

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

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(without alignments)
10416.928 Million cell updates/sec

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Sequence: 1 accracctttttttctatct.....aaataaacgattaaacatt 1825

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
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10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1825	100.0	1825	7	US-10-646-950-1
2	143.6	7.9	1275	6	US-10-210-760A-21
3	143.6	7.9	1275	6	US-10-229-541A-116
4	143	7.8	5544	6	US-10-210-760A-35
5	143	7.8	5544	6	US-10-229-541A-130
6	143	7.8	5668	6	US-10-210-760A-38
7	143	7.8	5668	6	US-10-229-541A-133
8	139	7.6	1275	6	US-10-210-760A-1
9	139	7.6	1275	6	US-10-210-760A-20
10	139	7.6	1275	6	US-10-229-541A-97
11	139	7.6	1275	6	US-10-229-541A-115
12	139	7.6	5074	6	US-10-210-760A-39
13	139	7.6	5074	6	US-10-229-541A-134
14	139	7.6	5544	6	US-10-210-760A-4
15	139	7.6	5544	6	US-10-229-541A-29
16	139	7.6	5668	6	US-10-210-760A-36
17	139	7.6	5668	6	US-10-229-541A-131
18	138.8	7.6	1275	6	US-10-210-760A-23
19	138.8	7.6	1275	6	US-10-229-541A-118
20	137.2	7.5	1275	6	US-10-210-760A-29
21	137.2	7.5	1275	6	US-10-229-541A-124
22	127.8	7.0	1275	6	US-10-210-760A-14
23	127.8	7.0	1275	6	US-10-210-760A-16

24	127.8	7.0	1275	6	US-10-229-541A-109	Sequence 109, App
25	127.8	7.0	1275	6	US-10-229-541A-111	Sequence 111, App
26	127.8	7.0	5074	6	US-10-210-760A-53	Sequence 53, Appl
27	127.8	7.0	5074	6	US-10-229-541A-148	Sequence 148, App
28	127.8	7.0	5544	6	US-10-210-760A-47	Sequence 47, Appl
29	127.8	7.0	5544	6	US-10-210-760A-49	Sequence 49, Appl
30	127.8	7.0	5544	6	US-10-229-541A-142	Sequence 142, App
31	127.8	7.0	5544	6	US-10-229-541A-144	Sequence 144, App
32	127.8	7.0	5668	6	US-10-210-760A-50	Sequence 50, Appl
33	127.8	7.0	5668	6	US-10-210-760A-52	Sequence 52, Appl
34	127.8	7.0	5668	6	US-10-229-541A-145	Sequence 145, App
35	127.8	7.0	5668	6	US-10-229-541A-147	Sequence 147, App
36	127	7.0	1249	6	US-10-210-760A-25	Sequence 25, Appl
37	127	7.0	1249	6	US-10-229-541A-120	Sequence 120, App
38	127	7.0	1661	7	US-10-425-114-1134	Sequence 1134, Ap
39	127	7.0	1816	8	US-10-425-115-16709	Sequence 16709, A
40	122.4	6.7	1275	6	US-10-210-760A-17	Sequence 17, Appl
41	122.4	6.7	1275	6	US-10-210-760A-19	Sequence 19, Appl
42	122.4	6.7	1275	6	US-10-229-541A-112	Sequence 112, App
43	122.4	6.7	1275	6	US-10-229-541A-114	Sequence 114, App
44	122.4	6.7	5075	6	US-10-210-760A-40	Sequence 40, Appl
45	122.4	6.7	5076	6	US-10-229-541A-135	Sequence 135, App

ALIGNMENTS

RESULT 1

US-10-646-950-1
; Sequence 1, Application US/10646950
; Publication No. US2004007296A1
; GENERAL INFORMATION:
; APPLICANT: Rine, Jasper
; APPLICANT: Boyartchuk, Victor L
; FILE REFERENCE: Ashby, Matthew N
; TITLE OF INVENTION: AFC1 and RCE1: Isoprenylated CAAX Processing Enzymes
; FILE REFERENCE: B96-021-3
; CURRENT APPLICATION NUMBER: US/10/646,950
; CURRENT FILING DATE: 2003-08-21
; PRIOR APPLICATION NUMBER: 60/023,491
; PRIOR FILING DATE: 1996-08-07
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 1825
; TYPE: DNA
; ORGANISM: Saccharomyces cerevisiae
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (343)..(1701)
US-10-646-950-1

Query Match	100.0%;	Score	1825;	DB	7;	Length	1825;
Best Local Similarity	100.0%;	Pred. No.	0;				
Matches	1825;	Conservative	0;	Mismatches	0;	Indels	0;
Gaps	0;						
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Db	1	ACCTACCTTTTCTTCTATCTTCAACACGAAACGCGCTTACACACACACACACATACATCT	60				
QY	61	ACATACATACATACAAATATACATATATGTAAACTTGTATATTCCTTCTATTAACCAAA	120				
Db	61	ACATACATACATACAAATATACATATATGTAAACTTGTATATTCCTTCTATTAACCAAA	120				
QY	121	AAGAGGCAATTAACATTTTTCCTCTTTTACGTCATTTACTCAAAACTCTAATTCCT	180				
Db	121	AAGAGGCAATTAACATTTTTCCTCTTTTACGTCATTTACTCAAAACTCTAATTCCT	180				
QY	181	TCGTCCTCTGTCCTGCAATTTTTCCTCAGAAAAAATCGACGGGAAATAAAAAAAGAC	240				
Db	181	TCGTCCTCTGTCCTGCAATTTTTCCTCAGAAAAAATCGACGGGAAATAAAAAAAGAC	240				
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Db      301  |||||AGGAAAAAAGAGAGAAATAGAAAACTCGAGGCCCTTTATTCATGTTTGCATCTTAAGACG 360
Qy      361  |||||ATTCTCGACCATCTTAATATCCCGTGGAAATTAATCATTTCTGGGTCTCGATTGCCCAA 420
Db      361  |||||ATTCTCGACCATCTTAATATCCCGTGGAAATTAATCATTTCTGGGTCTCGATTGCCCAA 420
Qy      421  |||||TTTCTCTTCCAAATCTTACTTGACGTACAGACAGTACAGAAAGCTATCTGAAAACAAAGTTG 480
Db      421  |||||TTTCTCTTCCAAATCTTACTTGACGTACAGACAGTACAGAAAGCTATCTGAAAACAAAGTTG 480
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Db      481  |||||CCACCTGTGCTGGAAGACGAAATTTGATGATGAATTTTTCATAAATCAAGGAACCTACTCC 540
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Db      541  |||||CGGGCCAAAGCCCAAGTTCTCCATTTTCCGTGACGTCTATAACCTAGCCCAAAAGCTAGTT 600
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Qy      1021  |||||TTGAGGACGGTGAATCTGAAAAAATCTATTGAAAGTTTGGCCGATAGAGTTGGGTTCCCT 1080
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Qy      1081  |||||CTAGATAAGATTTTGTGATGACGCTCAAAAGATCTTCTCATTTCAAACGATATTTTC 1140
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Qy      1141  |||||ACAGGTTTGCATTCACCTCCAAAGAAATTTGTTTGTTCGACACTTTTAGTGAACAGTAAT 1200
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Qy      1201  |||||TCTACTGATGAAATTAACGGCTGTTTGGCCCATGAAATCGGTCTACTGGCAAAAAAACAC 1260
Db      1201  |||||TCTACTGATGAAATTAACGGCTGTTTGGCCCATGAAATCGGTCTACTGGCAAAAAAACAC 1260
Qy      1261  |||||ATCGTTAATAGTGCATCTTTAGTCAATTCGACACTTCTCTCAATTTCTCCCTTTTCAAC 1320
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Qy      1321  |||||AGCATCTACAGAAATACATCAATTTTACAAACCTTCGGCTTTTCTTAGAGAAAGTCCACT 1380

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Db      1381  GGCAGTTTGTGTGATCCCGTTATCACTAAGNAATTCGCCATTTATCATTTGGATTTATGTTA 1440
Qy      1441  TTTAACGACTTATTAACTCCACTCCGAATGTGCATGCAATTCGTGATGAGTTTAAATTTCC 1500
Db      1441  TTTAACGACTTATTAACTCCACTCCGAATGTGCATGCAATTCGTGATGAGTTTAAATTTCC 1500
Qy      1501  AGAATCTATGAATATCAAGCTGATCTTATGCTAAAAAATTTGGGTACAAAGCAAAATCTA 1560
Db      1501  AGAATCTATGAATATCAAGCTGATCTTATGCTAAAAAATTTGGGTACAAAGCAAAATCTA 1560
Qy      1561  TGTAGGGCTCTAATTTGATCTACAAATCAAAACCTTTCCACCATGAATGTAGATCCTCTG 1620
Db      1561  TGTAGGGCTCTAATTTGATCTACAAATCAAAACCTTTCCACCATGAATGTAGATCCTCTG 1620
Qy      1621  TATTTCTAGCTATCATTTATTTCCCATCCACTCTAGCTGAAAGATCGACCGCTCTAGACTAT 1680
Db      1621  TATTTCTAGCTATCATTTATTTCCCATCCACTCTAGCTGAAAGATCGACCGCTCTAGACTAT 1680
Qy      1681  GTTAGTGAAGAAAGAAAGAACTAATCTATAGAGTACACATATTAGCATGTACCGTTAAAT 1740
Db      1681  GTTAGTGAAGAAAGAAAGAACTAATCTATAGAGTACACATATTAGCATGTACCGTTAAAT 1740
Qy      1741  TCAGTCTCGTTATGCTATATCTACATACATACAGGTATCTACTATAGATTAAGGA 1800
Db      1741  TCAGTCTCGTTATGCTATATCTACATACATACAGGTATCTACTATAGATTAAGGA 1800
Qy      1801  AAGAAAAAATAAACGATTAAACATT 1825
Db      1801  AAGAAAAAATAAACGATTAAACATT 1825

RESULT 2
US-10-210-760A-21
; Sequence 21, Application US/10210760A
; Publication No. US20030204865A1
; GENERAL INFORMATION:
; APPLICANT: Wan, Jiangxin
; APPLICANT: Huang, Yafan
; APPLICANT: Delina Campbell, Mary-Jane
; APPLICANT: Kuzma, Monika Maria
; APPLICANT: Gilley, Angela Patricia
; TITLE OF INVENTION: Cxax prenyl protease nucleic acids and polypeptides and
; FILE REFERENCE: 22542-009
; CURRENT APPLICATION NUMBER: US/10/210,760A
; PRIOR FILING DATE: 2002-08-01
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-10-210-760A-21

Query Match      7.9%; Score 143.6; DB 6; Length 1275;
Best Local Similarity 48.8%; Pred. No. 9.5e-25;
Matches 468; Conservative 0; Mismatches 449; Indels 45; Gaps 1;

Qy      700  CAGAGTTTATGCTTTCTTTGGGTCTCTTATCCAGTTTGTCTACCTTTGGTTGATTTGCCACTC 759
Db      319  CATACTCTTTTCATTTCTTTGGCTGGTTATGACATGTTGCACATCACTGATTTGCCATTT 378
Qy      760  TCTTACTATAGCCATTTTGTCTGGAGAAAAAATTTGGTTTCAATTAATTTGACCGTCAA 819
Db      379  TCTTTGTTACTCAACTTTTCTGTTGATCGAGTCTCGGCATGGGTTCAACAAACAATATGG 438

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Qy 820 CTATGGATACCGATATGATCAAGAGTCTGACTTTGGGCTATGCTATTGGTGGCCCAATC 879
Db 439 ATGTTTATTAGGAGATGATCAAGAGAAATTCCTCTCTGTGTCATAGGCCCCCACTT 498
Qy 880 CTTTACCTGTTTCCCTTAAGATCTTTGATAAATCCCTACTGATTTCTTTGGTACATATG 939
Db 499 GTTGGCGGATTAATTTTCATAGTCCAGAAAGAGGTCTTATCTTGGCCATCTATCTGFG 558
Qy 940 GTCCTTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 999
Db 559 GCATTCATGTTTATCTCTCTAGTATGATGACTATATACCCGGTCTTGATAGCACCG 618
Qy 1000 ATGTTTATATAGTTTCACTCCATTCGAGACGCTGAATGAAATATCTATTGAAAGTTTG 1059
Db 619 CTCCTTCAACAAAGTTTCACTCTCTCCAGATGGAGACCTCCGGGAGAAATGAGAAAT 678
Qy 1060 GCCGATAGTTGGGTTCCCTCTAGATAAGATTTTGTCAATGACGGCTCAAAAAGATCT 1119
Db 679 GCTTCTCTTAAGTTTCCCTTGNAGAGCTGTTTGTGTCGATGGATCTACAAGGTCA 738
Qy 1120 TCTCATTCAAACGATATTTTACAGGTTTGCATTCACCTCCAAAGAAATTTGTTGTTG 1179
Db 739 AGCCATAGCAATGCTTACATGATGCTTCTTTAAGAAACAAAGGATTTGTTCTTTATG 798
Qy 1180 GACACTTTAGTGAACAGTAATCTTACTGATGAATTTAGCGTGTGTTGGCCCATGAATC 1239
Db 799 ACGTTGATTCAGCAGTGAAGAAATGAGATGAAATTTGCGGCTTATTCACAGAGTT 858
Qy 1240 GGTCACTCGCAAAACCAATCTGATGAATTTAGCGTGTGTTGGCCCATGAATC 1299
Db 859 GGACATTTGGAGGATACACTCTTGTGTCAGAAATGAGATGAAATTTGCGGCTTATTC 858
Qy 1300 CTCATTTTCTCCCTTTTACCAGGATCTACAGAAATACATCATTTTAAACACCTTGGC 1359
Db 919 TTACAATTTGGAGGATACACTCTTGTGTCAGAAATCCACTGATCTCTTCAGGAGTT 978
Qy 1360 TTTTCTTAGAGAGTCCACTGGGAGTTTGTGATCCGTTATCACTAAGGAATTCCTCC 1419
Db 979 TTTGATACACAG-----CCT 993
Qy 1420 ATTATCATTTGATTTATGTTTAAACGACTTATTAACTCCACTCGAATGCGCAATGCAA 1479
Db 994 GTTCTCATTTGTTGATCATATTTTACGACACTGTAAATACCACTGCAACATCCAGTAAG 1053
Qy 1480 TTGCGTATGAGTTTAAATTTCCAGAACTCATGAATATCAAGCTGATGCTTTATGCTTAA 1539
Db 1054 TTTGCGCTCAACCTTTGTTAGTCGAGCGTTTGAGTTTTCAGGCTGATGCTTTTGTGCTGA 1113
Qy 1540 TTGGCTACAGCAAAATCTATGAGGCTCTAATTTGATCTACAATCAAAAACCTTTCC 1599
Db 1114 CTGGCTATGCAAAAAGATCTTCGCTCTACTCTAGTGAATCTACAGGAAGAACTTATCA 1173
Qy 1600 ACCATGAATGATAGCTCTGATTTCTAGCTATCATTTTCCATCCCAACTCTAGCTGAA 1659
Db 1174 GCAATGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1233
Qy 1660 AG 1661
Db 1234 AG 1235

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RESULT 3

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US-10-229-541A-116
; Sequence 116, Application US/10229541A
; Publication No. US20040010821A1
; GENERAL INFORMATION:
; APPLICANT: McCourt, Peter
; APPLICANT: Ghaesemian, Majid
; APPLICANT: Cutler, Sean
; APPLICANT: Bonetta, Dario
; TITLE OF INVENTION: Stress Tolerance and Delayed Senescence in Plants
; FILE REFERENCE: 22542-007CIP2

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; CURRENT APPLICATION NUMBER: US/10/229,541A
; CURRENT FILING DATE: 2002-08-27
; PRIOR APPLICATION NUMBER: 10/160,764
; PRIOR FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: 60/294,766
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/348,909
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: 10/210,760
; PRIOR FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: 60/309,396
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 09/191,687
; PRIOR FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 116
; LENGTH: 1275
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-10-229-541A-116

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Query Match 7.9%; Score 143.6; DB 6; Length 1275;
Best Local Similarity 48.6%; Pred. No. 9.5e-25;
Matches 468; Conservative 0; Mismatches 449; Indels 45; Gaps 1;
Qy 700 CAGAGTTTATGCTTCTTTGGGCTCTTATCCAGTTTGTCTACTCTTGGTTGTTGTCACCTC 759
Db 319 CATACTCTTCTTCTTCTTGGCTGTTTATGATGATGATGATGATGATGATGATGATGATG 378
Qy 760 TCTTACTATAGCCATTTTGTCTCGAAGAAATTTTGGTTTCAATAAATTTGACCGTCCAA 819
Db 379 TCTTGTACTCAACTTTTGTGATCGAGTCTCGGATGGGTTTCAACAACAACAATATGG 438
Qy 820 CTATGGATACCGATATGATCAAGAGTCTGACTTTGGGCTATGCTATTGGTGGCCCAATC 879
Db 439 ATGTTTATTAGGAGATGATCAAGAGAAATTCCTCTCTGTGTCATAGGCCCCCACTT 498
Qy 880 CTTTACCTGTTTCTTTAGATCTTTTGTAAATTCCTTACTGATTTCTTTGGTACATATG 939
Db 499 GTTGGCGGATTAATTTTTCATAGTCCAGAAAGAGGTCTTCTTATCTTGGCCATCTATCT 558
Qy 940 GTCCTTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 999
Db 559 GCATTCATGTTTATCTCTCTAGTATGATGATGATGATGATGATGATGATGATGATGATG 618
Qy 1000 ATGTTTAAATAGTTTCACTCCATTCGAGGACGCTGAATGAAATATCTATTGAAAGTTTG 1059
Db 619 CTCCTTCAACAAAGTTTCACTCTCTTCCAGATGGAGACCTCCGGGAGAAATTTGAGAA 678
Qy 1060 GCCGATAGTTGGGTTCCCTCTAGATAAGATTTTGTCAATGACGGCTCAAAAAGATCT 1119
Db 679 GCTTCTCTTAAAGTTTCTTTCATAGTCCAGAAAGCTGTTTGTGTCGATGGAATCTACA 738
Qy 1120 TCTCATTCAAACGATATTTTCAAGGTTTGCATTCACCTCCAAAGAAATTTGTTTGTTC 1179
Db 739 AGCCATAGCAATGCTTACATGATGTTTCTTTTAAAGAAACAAAGGATTTGTTCTTTAT 798
Qy 1180 GACACTTTAGTGAACAGTAATTTTACTGATGAATTTAGCGTGTGTTGGCCCATGAATC 1239
Db 799 ACGTTGATTCAGCAGTGAAGAAATGAGATGAAATTTGCGGCTTATTCACAGAGTT 858
Qy 1240 GGTCACTCGCAAAACCAATCTGATGAATTTAGCGTGTGTTGGCCCATGAATC 1299
Db 859 GGACATTTGGAGGATACACTCTTGTGTCAGAAATGAGATGAAATTTGCGGCTTATTC 918
Qy 1300 CTCATTTTCTCCCTTTTACCAGGATCTACAGAAATACATCATTTTAAACACCTTGGC 1359
Db 919 TTACAATTTGGAGGATACACTCTTGTGTCAGAAATCCACTGATCTCTTCAGGAGTT 978
Qy 1360 TTTTCTTAGAGAGTCCACTGGGAGTTTGTGATCCGTTATCACTAAGGAATTCCTCC 1419

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Db 979 TTTGATACAG-----CCT 993
 QY 1420 ATTATCATGGATTATGTTATTAACGACTTATTAACCTCCACTCGAATGTGCCATGCAA 1479
 Db 994 GTTCTCATTTGGTTGATCATATTTACGACACACTGTAAATACCACTGCAACATCCAGTAAGC 1053
 QY 1480 TTGCGATGAGTTTAATTTCCAGAACTCATGATATCAAGCTGATGCTTATGCTAAAAA 1539
 Db 1054 TTTGGCTCAACCTTGTAGTCAGCGTTGAGTTTCAGGCTGATGCTTTTGTGTGAAG 1113
 QY 1540 TTGGGCTCAAGCAAAATCTATGAGGCTCTAAATGATCTCAAAATCAAAACCTTTCC 1599
 Db 1114 CTTGGCTATGCAAAAGATCTTCGCTCTACTCTAGTGAACACTACAGAAAGAACTTATCA 1173
 QY 1600 ACCATGAATGATAGATCCTCTGATTTAGCTATCATATTTCCCACTCAACTCTAGCTGAA 1659
 Db 1174 GCAATGAATACTGATCCATTTGATCTCAGCTTATCACTACTCATCTCTCTCTGTGAA 1233
 QY 1660 AG 1661
 Db 1234 AG 1235

RESULT 4

US-10-210-760A-35/c
 ; Sequence 35, Application US/10210760A
 ; Publication No. US20030204865A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wan, Jiangxin
 ; APPLICANT: Huang, Yafan
 ; APPLICANT: Delina Campbell, Mary-Jane
 ; APPLICANT: Kuzma, Monika Maria
 ; APPLICANT: Gilley, Angela Patricia
 ; TITLE OF INVENTION: Caax pronyl protease nucleic acids and polypeptides and
 ; TITLE OF INVENTION: methods of use thereof
 ; FILE REFERENCE: 22542-009
 ; CURRENT APPLICATION NUMBER: US/10/210,760A
 ; CURRENT FILING DATE: 2002-08-01
 ; PRIOR APPLICATION NUMBER: 60/309,396
 ; PRIOR FILING DATE: 2001-08-01
 ; PRIOR APPLICATION NUMBER: 60/337,084
 ; PRIOR FILING DATE: 2001-12-04
 ; NUMBER OF SEQ ID NOS: 75
 ; SOFTWARE: Patent in ver. 2.1
 ; SEQ ID NO 35
 ; LENGTH: 5544
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence:
 ; OTHER INFORMATION: pBI121-antisense-AtCPP vector sequence
 US-10-210-760A-35

Query Match 7.8%; Score 143; DB 6; Length 5544;
 Best Local Similarity 46.2%; Pred. No. 3.1e-24;
 Matches 610; Conservative 0; Mismatches 655; Indels 54; Gaps 2;
 QY 343 ATGTTGATCTTAAGACGATTCGACCATCTTAATATCCGTTGGAAATTAATCATTTCT 402
 Db 4638 ATGTTGAACGATCGGGAAATTCGAGGGATGCGATTCTTTTCATGGAACCGTCGTG 4579
 QY 403 GGGTTCTCGATTGCCAAATTTCTTTTCGAATCTTACTTTCAGGTACAGACAGTACCAGAAG 462
 Db 4578 GGGTTTATGATGATGATGATATTTTTCGACGCTATTTTGGATCTGAGGCAACTCCTGCT 4519
 QY 463 CTATCTGAACAAAGTTGCCACCTGTGCTGGAACGAAATTTGATGATGAACCTTTTCAT 522
 Db 4518 CTCAGCTTCCACTCTCCGAAACCTTTGGTGTGATTAATAGCAAGAGAGTTTGGAG 4459
 QY 523 AAATCAAGGAACTACTCCCGGGCCAGGCCAAGTTCTCCATTTTCGGTGCAGCTATATAAC 582
 Db 4458 AAATCAGGAGCATACAGTCTTTGCAAAAGCTATTTTTCACCTTTTGTTCATGATTTGTAAC 4399

QY 583 CTAGCCCAAAAGCTAGTTTTCATCAAAATACGACCTCTTCCCTAAAAATCTGGCACATGGCC 642
 Db 4398 ATACTATGAGACTCGCAATTTTGTCTTTGGGATCTTGGCTTGGTTTGGGAATGTCT 4339
 QY 643 GTTCTTTTATTAATGATGAGTCTCGCAGTCAAGATTTTATATGCTCTCCACTGTCGACAG 702
 Db 4338 GGAGCTGTTT-----TACCGAGGTTGGSCCTTGATCCGAGAAATGAAATACTGCAT 4288
 QY 703 AGTTTATGCTTCTGGGTCTCTTATCCAGTTTGTCTACCTTGGTTGATTTGGCACTCTCT 762
 Db 4287 ACTCTTTTATCTTGGCTGGTGTATGACATGGTCAAGATCACTGATTTGCCATTTCT 4228
 QY 763 TACTATAGCAATTTGTCTCGAAGAAAAATTTGGTTTCAATAAAATGACCGTCCAACTA 822
 Db 4227 TTGTACTCACTTTCGTGATCGAGTCTCGGATGGGTTCAACAAACAAATATGGATG 4168
 QY 823 TGGATCACCGATATGATCAAGAGTCTGACTTTGGGGTATGCTATTGGTGGGCCCAATCTCT 882
 Db 4167 TTTCAATTAGGACATGATCAAGGAAACATTTCTCTCTGTCTACTAGTGGCCATCTCT 4108
 QY 883 TACCTGTTCTTAAAGATCTTTGATTAATTTCCCTACTGATTTCTTGGTACATTTATGGTC 942
 Db 4107 GCTGCGATAAATTTTCATAGTCCAGAAAGGAGTCTCTTATCTTGGCCATCTATCTGTGGCA 4048
 QY 943 TTTCTTGTGTTGTTGCCAAATCTTAGCCATGCAAACTATTCAGTCTTTCATCATGCCCATG 1002
 Db 4047 TTTCAATGTTTATCCTGTCTCTAGTATGATGATCTATATACCCTGTTTGTATGACCGCTC 3988
 QY 1003 TTTAATAAGTTTCACTCCATTTGGAGGACGTTGAACTGAAAAATCTATTGAAAGTTTGGCC 1062
 Db 3987 TTTCAACAATTCACCTCTCTCCAGATGGAGACCTCCGGGAGAGATTTGAGAACTTTGCT 3928
 QY 1063 GATAGAGTTGGTTTCCCTCTAGATTAAGATTTTGTCTATGACGGCTCAAAAAGATCTTCT 1122
 Db 3927 TCTTCCCTAAAGTTTCTTTTGAAGAAGCTGTTTGTGTGATGGATCTCAAGGTCAAGC 3868
 QY 1123 CATTCAAACGCAATTTTCACAGGTTTGCATTCACCTCCAAGAGAAATGTTTGTTCGAC 1182
 Db 3867 CATAGCAATGCTTACATGATGTTTCTTTAAGAACAAAAGATGTTCTTTATGATACG 3808
 QY 1183 ACTTTAGTGAACAGTAATTTCTACTGATGAAATTTACGGCTGTTTGGCCCATGAAATCGGT 1242
 Db 3807 TTGATTTACAGCTGCGAAGAAATGAGGATGAAATTTGGCGGTTTATTCACACAGCTTGA 3748
 QY 1243 CACTGGCAAAAAACCAATCGTTAATATGTTGTCATCTTTAGTCAATTTGACACACCTTCTC 1302
 Db 3747 CATTTGGAACCTGAAATCACACTACATCTCGTTTCATTTGCAAGTTTCAAAATCTTGTCTT 3688
 QY 1303 ATTTTCTCCTTTTCCACGACATCTACAGAAATATACATCATTTTACAAACACCTTTCGGCT 1362
 Db 3687 CAATTTGGAGGATACACTCTTCTCAGAAACTCCACTGATCTCTTTCAGGAGTTTCGATTT 3628
 QY 1363 TTTCTTAGAAGATCCACTGGCAGTTTGTGTGATCCCGTTTATCACTAAGGAATTTCCCAAT 1422
 Db 3627 GATACACAG-----CCTGTT 3613
 QY 1423 ATCAATTTGATTTATGTTTATTAACGACTTATTAACCTCCACTCGAATGTGCCATGCAATTC 1482
 Db 3612 CTCAATTTGTTTATCATATTTTTCAGCACACTGTAAATACCACTGCAACATCTAGTAAGCTTT 3553
 QY 1483 GTGATCAGTTTAAATTTCCAGAACTCATGAATATCAAGCTGATGCTTTATGCTTAAATAATG 1542
 Db 3552 GGCTGAAACCTCGTTAGTCAGGGTTTGTGTTTTCAGGCTGATGCTTTTGTGTGAGACTTT 3493
 QY 1543 GGCTACAAGCAAAATCTATGAGGCTCTAAATTTGATCTCAAAATCAAAACCTTTCCACC 1602
 Db 3492 GACTATGCAAAAGATCTTCGCTCTGTCTAGTGAACACTCAGGAAGAGAACTTATCAACA 3433
 QY 1603 ATGAATGTAGATCTCTGTATTTCTAGCTATCATTTTCCCATCAACTCTAGCTGAAG 1661
 Db 3432 ATGAACACTGATCCATTTGATCTAGCTTATCTACTACTCATCTCTCTCTCTTGTGTAAG 3374


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; CURRENT FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: 60/309,396
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 38
; LENGTH: 5668
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: prd29A-antisense-AtCPP vector sequence
US-10-210-760A-38

Query Match 7.8%; Score 143; DB 6; Length 5668;
Best Local Similarity 46.2%; Pred. No. 3.le-24;
Matches 610; Conservative 0; Mismatches 655; Indels 54; Gaps 2;

QY 343 ATGTTTGAATCTTAAGACGATTCGACCATCTTAATATATCCCGTGGAAATTAATCATTTCT 402
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 4762 ATGTTTGAACGATCGGGGAAATTCGAGGGATGGCGATTCCTTTCATGGAACCGTCGTG 4703
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 403 GGGTCTCGATTCGCCAAATTTCTTCGAATCTTACTTGACGTACAGACAGTACCAGAAG 462
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 4702 GGTATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 4643
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 463 CTATCTGAACAAAGTTGCCACCTGTGCTGGAAGAGCAAAATTTGATGATGAAATCTTTTCAT 522
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 4642 CTCGAAGCTTCCAACTCTCCCGAAACCTTGGTGGTGAATAGGCAAGAGAAATTTGAG 4583
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 523 AAATCAAGAACTACTCCCGGGCAAGCCAAAGTCTCCAAATTTCCGTCGACGCTATAAC 582
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 4582 AAATCAGGACATACAGTCTTGACAAAGAGCTATTTTCACTTTTTCATGATTTTGAAC 4523
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 583 CTAGCCCAAGCTAGTTTTCATCAATACGACCTCTCCCTAAATCTGCCACATGGCC 642
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 4522 ATACTTATGAGCTCTGCAATTTTGTCTTTGGGATCTTGCTTGGTGGTGGTGGTGGTGGTGGT 4463
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 643 GTTCTTTTATGAATCGAGTCTGCCAGTCAGATTTTCATATGCTCTCCACTGTCGCACAG 702
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 4462 GGAGCTGTTT-----TACCGAGTTGGGCTTGATCCGGAGAAATGAATFACTGCAT 4412
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 703 AGTTATGCTTCTGGTCTCTTATCCAGTTTGTCTACCTTGTGATTTGATTTGCCACTCTCT 762
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 4411 ACTCTTTTCACTTTGGCTGGTGTATGACATGGTCCAGATCACTGATTTGCCATTTTCT 4352
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 763 TACTATAGCCATTTTGGCTCGGAAGAAAAATTTGGTTTCAATAAAATTTGACCGTCCAAC 822
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 4351 TTGTACTCAACTTTCTGTGATCGAGTCTCGGCATGGGTTCACAAACAAACAAATATGATG 4292
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 823 TGGATCACCGATATGATCAAGAGTCTGACTTTTGGCGGTATGCTATTTGGTGGCCCAATCCCT 882
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 4291 TTCAATAGGACATGATCAAGAAACATTCCTCTCTGTCTACTAGGCCCAACCATTTGTT 4232
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 883 TACCTGTTCTTAAAGTCTTTGATAAATTCCTCTACTGATTTCCCTTTGGTGGTACATTTGGTC 942
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 4231 GCTGCGATAATTTTCATAGTCCAGAAAGGAGTCTTATCTTGCCATCTATCTGTGGGCA 4172
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 943 TTCTTTGTTGTTGTCCTTCTAGCCATGACATCAATTCAGTCTTTCATCATGCCCATG 1002
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 4171 TTTATGTTTATCTGCTCTAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 4112
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1003 TTTAATAAGTTCACTCCATTTGGAGCGGTGAATCTGAAAAAATCTATTTGAAAGTTTGGCC 1062
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 4111 TTCAACAAATTCACCTCTCTCCAGATGGAGACCTCCGGGAGAGATTTGAGAAACTTGCT 4052
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1063 GATAGAGTTGGTTCCTCTAGATAAGATTTTGTGATTTGACGGCTCAAAAAGATCTTCT 1122
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 4051 TCTTCCCTAAAGTTTCTCTTTGAAGAGCTGTTTGTGTCGATGATGATGATGATGATGATGATG 3992
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1123 CATTCAACGATATTTTACAGAGTTTTCACAGTTTTCACCTTCCAGAGAAATTTGTTTTCGAC 1182
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

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RESULT 7
US-10-229-541A-133/c
; Sequence 133, Application US/10229541A
; Publication No. US20040010821A1
; GENERAL INFORMATION:
; APPLICANT: McCourt, Peter
; APPLICANT: Cutler, Sean
; APPLICANT: Bonetta, Dario
; TITLE OF INVENTION: Stress Tolerance and Delayed Senescence in Plants
; FILE REFERENCE: 22542-007CIP2
; CURRENT APPLICATION NUMBER: US/10/229,541A
; CURRENT FILING DATE: 2002-08-27
; PRIOR APPLICATION NUMBER: 10/160,764
; PRIOR FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: 60/294,766
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/348,909
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: 10/210,760
; PRIOR FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: 60/309,396
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 09/191,687
; PRIOR FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 133
; LENGTH: 5668
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Plasmid
; OTHER INFORMATION: prd29A-antisense-AtCPP
US-10-229-541A-133

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Db	3751	GATACACAG-----CCTGTT	3737
Qy	1423	ATCATTGGATTATGTTATTTAAGCACTTATTAACCTCCACTCGAATGTGCCATCAATTC	1482
Db	3736	CTCATTGGTTGATCATATTTTCAGCACACATGTAATACCACTGCAACATCTAGTAAGCTTT	3677
Qy	1483	GTGATGAGTTTAATTTCCAGAACTCATGAATATCAAGACTGATGCTTATGCTAAAAAATTG	1542
Db	3676	GGCCTGAACCTCGTTAGTTCGAGCGTTTGAGTTTCAGGCTGATGCTTTTGCTGTGAAGCTT	3617
Qy	1543	GGCTACAAGCAAAATCTATGTAGGGCTCTCTAAATTGATCTACAATAAAAAACCTTTCCACC	1602
Db	3616	GACTATGCAAAAAGATCTTCGTCTCTAGTGAATACTACAGGAAGAGAACTTATCAACA	3557
Qy	1503	ATGAATGTAGATCTCTCTGTATTCTAGCTATCATTAATTTCCCATCCAACTCTAGCTGAAAG	1661
Db	3556	ATGAACACTGATCCATTGTACTAGCTTATCACTACTACATCTCCTCTTGTGTTGAAG	3498
RESULT 8			
US-10-210-760A-1			
; Sequence 1, Application US/10210760A			
; Publication No. US20030204865A1			
; GENERAL INFORMATION:			
; APPLICANT: Wan, Jiangxin			
; APPLICANT: Huang, Yafan			
; APPLICANT: Delina Campbell, Mary-Jane			
; APPLICANT: Kuzma, Monika Maria			
; APPLICANT: Gilley, Angela Patricia			
; TITLE OF INVENTION: Caax prenyl protease nucleic acids and polypeptides and			
; TITLE OF INVENTION: methods of use thereof			
; FILE REFERENCE: 22542-009			
; CURRENT APPLICATION NUMBER: US/10/210,760A			
; CURRENT FILING DATE: 2002-08-01			
; PRIOR APPLICATION NUMBER: 60/309,396			
; PRIOR FILING DATE: 2001-08-01			
; PRIOR APPLICATION NUMBER: 60/337,084			
; PRIOR FILING DATE: 2001-12-04			
; NUMBER OF SEQ ID NOS: 75			
; SOFTWARE: Patentin Ver. 2.1			
; SEQ ID NO 1			
; LENGTH: 1275			
; TYPE: DNA			
; ORGANISM: Arabidopsis thaliana			
US-10-210-760A-1			
Query Match 7.6%; Score 139; DB 6; Length 1275;			
Best Local Similarity 46.3%; Pred. No. 1.3e-23;			
Matches 594; Conservative 0; Mismatches 635; Indels 54; Gaps 2			
Qy	379	ATCCGTGGAATTAATCAATTTCTGGGTTCTCGATTGCCCAATTTCTTTCGAATCTTTAC	438
Db	7	ATTCCTTTCAATGGAACCGTGTGGGTTTATGATAGTATGATACATTTTGTGAGACGTAT	66
Qy	439	TTGACGTACAGACAGTACCAGAACTATCTGAACAAAAGTTGCCACCTGTCTGGAAGAC	498
Db	67	TTGATCTGAGCAACTCACTGCTCTCAAGCTTCCAATCTCCCGAAAAACCTTGGTGGT	126
Qy	499	GAATATGATGATAAACTTTTCAATAATCAAGAACTATCTCCGGGGCCAAAGCCAAAGTTC	558
Db	127	GTAATTTAGCCAAAGAGAAGTTTGAAATACAGACATACAGCTTTGACAAAAGCTATTTT	186
Qy	559	TCCAATTTTGGTGAAGTCTATAACTAGCCCCAAAAGTAGTTTTCATCAAAATAGACCTC	618
Db	187	CACATTTGTTCATAGTTTGTAACTATATCTATGCACTCTGCAATTTTGTCTTTGGGATC	246
Qy	619	TTCCCTAAAAATCTGGCACATGGCCGTTCTTTTATTTGAATGCAGTCCCTGCCAGTCAGATTT	678
Db	247	TTGCTTTGGTTTUGAAGATGTCTGGAGCTGTTT-----TACCGAGGTGGGCTT	297
Qy	679	CATATGGTCTCCACTGTGCGACAGAGTTTATGCTTCTTGGGTCTCTTATCCAGTTTGTCT	738

```

; APPLICANT: Wan, Jiangxin
; APPLICANT: Huang, Yafan
; APPLICANT: Delina Campbell, Mary-Jane
; APPLICANT: Kuzma, Monika Maria
; APPLICANT: Gilley, Angela Patricia
; TITLE OF INVENTION: Cxax prenyl protease nucleic acids and polypeptides and
; TITLE OF INVENTION: methods of use thereof
; FILE REFERENCE: 22542-009
; CURRENT APPLICATION NUMBER: US/10/210,760A
; CURRENT FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: 60/309,396
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 20
; LENGTH: 1275
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: sequence
; OTHER INFORMATION: complimentary to seq id no: 1
US-10-210-760A-20

Query Match          7.6%; Score 139; DB 6; Length 1275;
Best Local Similarity 46.3%; Pred. No. 1.3e-23;
Matches 594; Conservative 0; Mismatches 635; Indels 54; Gaps 2;

QY 379 ATCCGCGTGAATTAATCATTTCTGGGTTCTCGATTGCCCCCAATTTTCTTTCGAATCTTAC 438
DB 1269 ATTCCTTTTCATGGAACCGTCTGGGTTTATAGTAGTGTACATTTTTCGAGCGTAT 1210
QY 439 TTGACGTACAGACAGTACGAGAGCTATCTGAAACAAAGTTCCACCTGTGCTGGAGAC 498
DB 1209 TTGGATCTGAGGCAACTCACTGCTCTCAAGCTTCCAACTCTCCGAAAACTTGGTTGGT 1150
QY 499 GAAATGTAGTGAATCACTTTTCATAAATCAAGAACTACTCCCGGCGCAAGGCTTC 558
DB 1149 GTAAATAGCAAGAGAGTTTGGAGAAATCAGAGCATACAGTCTTGACAAAAGCTATTTT 1090
QY 559 TCATTTTTCGGTGAAGCTCTATACCTAGCCCAAGAGTAGTTTTCATCAATACGACCTC 618
DB 1089 CACTTTGTTTCATGAGTTTGTAACTATCTTATGGAATTTTGTCTTTCGGAATC 1030
QY 619 TTCCCTAAATCTGGCAGATGGCCGTTTCTTTTATGAATGAGTCTGCGCAGTCAATTT 678
DB 1029 TTGCCTTGGTTTGGAGAGTGTCTGAGCTGTTT-----TACCGAGGTGGGCGCTT 979
QY 679 CATATGCTCTCCACTGTGCGACAGAGTTTATGCTTCTGGGTCTCTTATCCAGTTTGTCT 738
DB 978 GATCCGAGAGATGAATACTATGATATCTTTTCAATTTCTGGCTGGTGTATGATGCTCA 919
QY 739 ACCTTGGTTGATTTGGCACTCTCTTACTATAGCAATTTTGTCTGGAGAAAATTTGGT 798
DB 918 CAGATCACTGATTTGGCAATTTTCTTGTGACTCAACTTTCTGATCGAGTCTCGCATGG 859
QY 799 TTCAATAAATTTGACCGTCCAACTATGGATCAGGATACCGATATGATCAAGAGTCTGCTTGGCG 858
DB 858 TTCAACAAAACAAATATGGATGTTTCAATAGGACATGATCAAAAGAAATTCCTCTCT 799
QY 859 TATGCTATTTGGTGGCCCAATCTTTTACCTGTTTCTTAAAGATCTTTTCAATAATTTCCCTACT 918
DB 798 GTCACTAGTGGCCCAATCTTTGCTGCGATAATTTTCACTAGTCAAGAGAGTCTCT 739
QY 919 GATTTCCCTTTTGGTACATTTATGGTCTTTCTTTTGTGTTGTTCCAAATCTTACCATGACAATC 978
DB 738 TATCTTGGCACTATCTGTGGGCAATTCATGTTTATCTCTGTCTAGTGTATGATGACTATA 679
QY 979 ATTCCAGTCTTTCATGATGCGCAATGTTTAAAGTTTCACTTCCATTTGAGGAGCGGTGACCTG 1038
DB 678 TACCGGTCTTGTATGACCGCTCTTCAACAAATTCACCTCTCTCCAGATGAGAGACCTC 619

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RESULT 9
 US-10-210-760A-20/c
 ; Sequence 20, Application US/10210760A
 ; Publication No. US20030204865A1
 ; GENERAL INFORMATION:

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Qy 1039 AAAAATCTATTGAAAGTTTGGCCGATAGAGTTGGGTTCCCTCTAGATAAGATTTTGTCT 1098
Db 618 CGGGAGAAGATTGAGAACTTCTCTTCCCTAAAGTTTCTTTTGAAGAACTGTTTGT 559
Qy 1099 ATTGACGGCTCAAAAAGATCTTCTCATTTCAAAAGCATATTTTACAGGTTTCCCAATTCACC 1158
Db 558 GTCGATGATCTACAAAGTCAAGCATAGCAATGCTTACATGATGTTTCTTTAAGAAC 499
Qy 1159 TCCAAAGAAATGTTTGTGTCACACTTTAGTGAACAGTAATTTCTACTGATGAATACG 1218
Db 498 AAAAGGATTGTTCTTTATGATACGTTGATTCAGCAGTGCAGAAATGAGGATGAAATGTG 439
Qy 1219 GCTGTTTGGCCCATGAATGGTCACATGGCAAAAAAACCAACATCGTTAAATATGTCATC 1278
Db 438 GCGGTTATGACACGAGCTTGGACATTTGGAACTGAATACACATACATCTGTTCAAT 379
Qy 1279 TTTAGTCAATTTGCACACCTTCTCTCATTTTCTCCCTTTTACCAGCATCTACAGAAATACA 1338
Db 378 GCAGTTCAATCTTGGCTTCTTACAAATTTGGAGGATACACTCTTCTCAGAAACTCCACT 319
Qy 1339 TCATTTTACACACCTCTGGCTTTTCTTCTAGAAAGTCCACTGGCAGTTTGTGATCCC 1398
Db 318 GATCTCTTTCAGAGTTTGGGATTTGTATACAG----- 286
Qy 1399 GTTATCACTAAGGAATTCCTCAATATCATTTGATTTTAAAGACTTTAACT 1458
Db 285 -----CCTGTTCTCATTTGTTGATCATATTCAGCACTGTAATA 244
Qy 1459 CCACCTCGAATGTCCCATGCAATTCGTGATGAGTTTAAATTTCCAGAACTCATGAATATCAA 1518
Db 243 CCACGTCAACATCTAGTAAGCTTTGGCCTGAACCTCGTTAGTCGAGCGTTGAGTTTCAG 184
Qy 1519 GCTGATGCTTATGCTAAATAATTTGGGCTACAGCAAAATCTATGAGGGCTCTTAATGAT 1578
Db 183 GCTGATGCTTTTGTGCTGAAGCTTGACTATGCAAAAGATCTTCGTCCTCTAGTGAAA 124
Qy 1579 CTACAAATCAAAACCTTTCCACCATGAATGTAGATCTCTGTATTCCTAGCTATCATPAT 1638
Db 123 CTACAGGAAGAGAACTTATCAAAATGAACACTGATTCATTCAGTCTAGCTTATCACTAC 64
Qy 1639 TCCCATCAACTCTAGCTGAAAG 1661
Db 63 TCACATCTCTCTTGTGTAAG 41

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RESULT 10
US-10-229-541A-97
; Sequence 97, Application US/10229541A
; Publication No. US20040010821A1
; GENERAL INFORMATION:
; APPLICANT: McCourt, Peter
; APPLICANT: Ghassemanian, Majid
; APPLICANT: Cutler, Sean
; APPLICANT: Bonetta, Dario
; TITLE OF INVENTION: Stress Tolerance and Delayed Senescence in Plants
; FILE REFERENCE: 22542-007CIP2
; CURRENT APPLICATION NUMBER: US/10/229,541A
; CURRENT FILING DATE: 2002-08-27
; PRIORITY APPLICATION NUMBER: 10/160,764
; PRIORITY FILING DATE: 2002-05-31
; PRIORITY APPLICATION NUMBER: 60/294,766
; PRIORITY FILING DATE: 2001-05-31
; PRIORITY APPLICATION NUMBER: 60/348,909
; PRIORITY FILING DATE: 2001-10-22
; PRIORITY APPLICATION NUMBER: 10/210,760
; PRIORITY FILING DATE: 2002-08-01
; PRIORITY APPLICATION NUMBER: 60/309,396
; PRIORITY FILING DATE: 2001-08-01
; PRIORITY APPLICATION NUMBER: 60/337,084
; PRIORITY FILING DATE: 2001-12-04
; PRIORITY APPLICATION NUMBER: 09/191,687
; PRIORITY FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 176

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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 97
; LENGTH: 1275
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; US-10-229-541A-97

Query Match      7.6%; Score 139; DB 6; Length 1275;
Best Local Similarity 46.3%; Pred. No. 1.3e-23;
Matches 594; Conservative 0; Mismatches 635; Indels 54; Gaps 2;

Qy 379 ATCCCGTGGAAATTAATCATTTCTGGGTTCTCGATTTGCCCAATTTTCTTTGAAATCTTTAC 438
Db 7 ATTCCTTTTCATGGAAACCGTCGTGGGTTTATGATAGTGATGATCAATTTTGTAGACGATAT 66
Qy 439 TTGACGTACAGACAGTACCAAGACTATCTGAAACAAAGTTGCCACCTGTGCTGGAAGAC 498
Db 67 TTGGATCTGAGGCAACTCACTGTCTTCAAGCTTCCAACTCTCCGAAACCTTCGGTGGT 126
Qy 499 GAAATTCATGATGAAACTTTTTCATAAATCAAGAACTACTCCCGGGCCAAAGCCCAAGTTC 558
Db 127 GTAATTAGCCAGAGAAGTTTGGAAATCAGGACATACAGTCTTTGACAAAGCTATTTT 186
Qy 559 TCCATTTTCGGTGAAGCTCTATACCTAGCCCAAGCTAGTTTTCATCAAAATACGACCTC 618
Db 187 CACTTTGTCATGAGTTTGTAACTATCTTATGAGCTCTGCAATTTTGTCTTTGGGATC 246
Qy 619 TTCCCTAAAATCTGGACATGGCGTTTCTTTATTTGAATGCAGTCTGCCAGTCAGATTT 678
Db 247 TTGCTTTGGTTTGGAAAGATGTCGGAGCTGTTT-----TACCGAGTTGGGCTT 297
Qy 679 CATATGCTCTCCACTGTCGACAGAGTTTATGCTTTCTGGGTCTCTTATCCAGTTTGTCT 738
Db 298 GATCCGGAGAATGAAATACCTGACATCTTTCTTCTTTGCTGCTGTTTATGACATGCTCA 357
Qy 739 ACCTTGTGTTGATTTGCCACTCTCTTACTATAGCCCAATTTTGTCTTGGAAAGAAAAATTTGGT 798
Db 358 CAGATCACTGATTTGCCATTTTCTTGTACTCAACTTTTCGTGATCGAGTCTCGGCATGGG 417
Qy 799 TTCAATAAATGACCGTCCCAACTATGGATCACCAGATGATCAGAGTCTGACATTTGGCG 858
Db 418 TTCAACAAACAAACAATATGGATGTTTCAATAGGACATGATCAAAAGAAACATTCCTCTCT 477
Qy 859 TATGCTATTGGTGGCCCAATCTTTTACCTGTTTCTTAAAGATCTTTTGAATAATCCCTACT 918
Db 478 GTGATACTAGCCCACTTGTGTCGGAATATTTTATAGTCCAGAAAGGAGGCTCT 537
Qy 919 GATTTCCCTTTTGGTACATTTATGGTCTTCTTGTGTTGTTCCAAATCTTTAGCCATGACAACT 978
Db 538 TATCTTGGCATCTATCTGTGGGCATTCATGTTTATCCTGCTCTCTAGTATGATGACTATA 597
Qy 979 ATTCCAGTCTTCATGCCCCCATGTTTAAATAGTTTCACTCCATTTGGAGGAGCGTGAACTG 1038
Db 598 TACCCGCTGTTGATAGCACCGCTCTTCAACAAATTCACCTCTCTTCCAGATGGAGACCTC 657
Qy 1039 AAAAAATCTATTGAAAGTTTGGCCGATAGAGTTTGGGTTTCCCTCTAGATAAGATTTTGTCT 1098
Db 658 CGGGAGAAGATTGAGAATCTGCTTCTTCCCTAAAGTTTCTTTTGAAGAACTGTTTGT 717
Qy 1099 ATTGACGGCTCAAAAAGATCTTCTCATTTCAAAAGCATATTTTACAGGTTTCCCAATTCACC 1158
Db 718 GTCGATGATCTACAAAGTCAAGCTCAAGCCATAGCAATGCTTTACATGATGTTTCTTTAAGAAC 777
Qy 1159 TCCAAAGAAATGTTTGTGTCGACACTTTAGTGAACAGTAATTTCTACTGATGAATATACG 1218
Db 778 AAAAGGATTGTTCTTTATGATACGTTGATTCAGCAGTGCAGAAATGAGGATGAATTTGTG 837
Qy 1219 GCTGTTTGGCCCATGAATCGGTCACCTGGCAAAAAAACCACTCGTTAAATATGCTCATC 1278
Db 838 GCGGTTTATGACACGAGCTTGGACATTTGAAACTGAACTGATCACACTACATCTCTCTTATT 897
Qy 1279 TTTAGTCAATTTGCACACCTTCTCTCATTTTCTCCCTTTTCCACCAAGATCTTACAGAAATACA 1338
Db 1279 TTTAGTCAATTTGCACACCTTCTCTCATTTTCTCCCTTTTCCACCAAGATCTTACAGAAATACA 1338

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Db 898 GCAGTTCAAATCCTTGCCTTCTTACAAATTGGAGGATACACTCTTCTCAGAAATCCACT 957
Qy 1339 TCATTTTACAAACCTTTCGCTTTTCTTTAGAGAAGTCCACTGGCAGTTTGTGTGATCCC 1398
Db 958 GATCTCTTCAGGAGTTTCGGATTGATACACAG----- 990
Qy 1399 GTTATCACAAGGAATTCGCCATTATTCATTTGGATTATGTTTATTTAAACGACTTATTAACT 1458
Db 991 -----CCTGTTCTCATTTGTTGATCATATTTCCAGCACAAGTGAATA 1032
Qy 1459 CCACTCGAATGTCCTGCAATTCGATGAGTTAAATTTCCAGAACTCATGAATATCAA 1518
Db 1033 CCACTGCAACATCTAGTAAGCTTTGGCTTGAACCTCGTTAGTCGAGCGTTTGAGTTTCAG 1092
Qy 1519 GCTGATGCTTATGCTAAAAAATTTGGCTACAAGCAAAATCTATGTAGGCTCTAATTGAT 1578
Db 1093 GCTGATGCTTTTGTGCTGGAAGCTTGACTATGCAAAAAGATCTTGTCTCTCTAGTGAAA 1152
Qy 1579 CTACAAATCAAAAACCTTTCCACCATGAATGTAGATCTCTGTATTTCTAGCTATCATAT 1638
Db 1153 CTACAGAGAGAACTTATCAACAATGAACACTGATCCATTGACTCAGCTTATCACTAC 1212
Qy 1639 TCCATCCCACTCTAGCTGAAAG 1661
Db 1213 TCACATCCTCTCTTGTGGAAG 1235

RESULT 11

US-10-229-541A-115/c
; Sequence 115, Application US/10229541A
; Publication No. US20040010821A1
; GENERAL INFORMATION:
; APPLICANT: McCourt, Peter
; APPLICANT: Ghassemlian, Majid
; APPLICANT: Cutler, Sean
; APPLICANT: Bonetta, Dario
; TITLE OF INVENTION: Stress Tolerance and Delayed Senescence in Plants
; FILE REFERENCE: 22542-007CIP2
; CURRENT APPLICATION NUMBER: US/10/229,541A
; CURRENT FILING DATE: 2002-08-27
; PRIOR APPLICATION NUMBER: 10/160,764
; PRIOR FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: 60/294,766
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/348,909
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: 10/210,760
; PRIOR FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: 60/309,396
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 09/191,687
; PRIOR FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 115
; LENGTH: 1275
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Compliment to
; OTHER INFORMATION: SEQ ID NO: 97
US-10-229-541A-115

Query Match 7.6%; Score 139; DB 6; Length 1275;
Best Local Similarity 46.3%; Pred. No. 1.3e-23;
Matches 594; Conservative 0; Mismatches 635; Indels 54; Gaps 2;
Qy 379 ATCCCGTGGAAATTAATCATTTCTGGGTTCTCGAATGCCCAATTTCTTTCGAATCTTAC 438
Db 1269 ATTCCTTTCTGGAACCGTCGCGGTTTATGATAGTGATACATTTTGTGACCGTAT 1210

Qy 439 TTGCGTACAGACAGTACCAGAAGCTATCTGAAACAAAGTTGCCACCTGTGCTGGAAGAC 498
Db 1209 TTGATCTGAGGCAACTCACTGCTCTCAAGCTTCCAACTCTCCGAAAAACCTTGGTGGT 1150
Qy 499 GAAATTTGATGATGAATACTTTTATAAATCAAGGAATCTATCCCGGGCCAAAGCCCAAGTTC 558
Db 1149 GTAATTTAGCCAAAGAGAAGTTTGAGAAATCAAGGATACAGCTTTGACAAAAGCTATTTT 1090
Qy 559 TCCATTTTCGGTGAGCTCTATAAACCCTAGCCCCAAAAGCTAGTTTTCATCAATACACCTC 618
Db 1089 CACTTTTGTTCATAGTTTGTAACTATATCTTATGGAATCGAGTCTCTCCAGCTCAGATT 1030
Qy 619 TTTCCCTAAAACTCGCACATGCGCGCTTTCTTTATTTGAATCGAGTCTCTCCAGCTCAGATT 678
Db 1029 TTGCTTTGGTTTGGAAAGATGCTGGAGCTGTTT-----TACCAGGTTGGGCTT 979
Qy 679 CATATGGTCTCCACTGTCGCAAGAGTTTATGCTTTCTTTGGGTCTCTTATCCAGTTTGTCT 738
Db 978 GATCCGGAGAAATGAATACTTGCATCTCTTTCATTTCTTTGGCTGGTGTATGACATGGTCA 919
Qy 739 ACCTTGGTTGATTTGCCACTCTTCTTACTATAGCCATTTTGTCTCTGGAAGAAAAATTTGGT 798
Db 918 CAGATCACTGATTTGCCATTTTCTTTGTACTCAACTTTTCGTGATCGAGTCTCGGCATGGG 859
Qy 799 TTCAATAAATTGACCGTCCAACTATGGATCACCGATATGATCAAGAGTCTGACTTTGGCG 858
Db 858 TTCAACAAACAAACAATATGGATGTTCAATAGGACATGATCAAGGAACATTCCTCTCT 799
Qy 859 TATGCTATTGGTGGCCCAATCCTTTTACCTGTTTCTTTAAGATCTTTTGATAAAATTCCTACT 918
Db 798 GTCATACTAGGCCCAACCACTTGTCTGCGATAATTTTTCATAGTCCAGAAAGAGGTCTCT 739
Qy 919 GATTTCTTTTGGTACATTTATGCTCTCTTGTGCTGTTTCCAAATCTTAGCCATCAAACTC 978
Db 738 TATCTTGGCATCTATCTGTGGGCATTCATGTTTATCTCTCTCTAGTATGATGACTATA 679
Qy 979 ATTCAGTCTTCATCATGCCCCATGTTTAAATAGTTTCACTTCCATTTGGAGACGCTGAACTG 1038
Db 678 TACCGGCTTTGATAGCACCGCTCTTCAACAATTTCACTCTCTTCCAGATGGAGACCTC 619
Qy 1039 AAAAAATCTATTGAAAGTTTGGCCGATAGAGTTGGGTTCCCTCTAGATGAAGATTTTGTCT 1098
Db 618 CGGGAGAGATTGAGAAACTTCTCTTCTTCCCTTAAAGTTTCTTTTGAAGAAGCTGTTGTT 559
Qy 1099 ATTGAGGCTCAAAAAGATCTTCTCATTTCAACAGCATATTTCCACAGGTTTGGCATTCACC 1158
Db 558 GTCGATGGATCTACAAGGTCAAGCCATAGCAATGCTTACATGATGTTGTTCTTTTAAAGAC 499
Qy 1159 TCCAAGAGAAATTTGTTTGTTCGACACTTTTAGTGAACAGTAAATTTCTACTGATGAAATTAG 1218
Db 498 AAAGAGATTGTTCTTTATGATAGCTTTGATTCAGCAGTGAAGAAATGAGGATGAAATTTG 439
Qy 1219 GCTGTTTGGCCCATGAAATTCGGTCACTGGCAAAAAAACCAATCGTTTAATATGTCATC 1278
Db 438 GCGGTTATTGACACAGAGCTTGGACATTTGGAATCTGAATCACAATACACTACTCGTTCAAT 379
Qy 1279 TTTAGTCAATTTGCACACCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 1338
Db 378 GCAGTTCAAACTCTTGCCTTCTTACAAATTTGGAGGATACACTCTTCTCAGAACTCCACT 319
Qy 1339 TCATTTTCAACACACCTTTCGGCTTTTCTTTAGAGAAGTCCACTGGCAGTTTGTGTGATCCC 1398
Db 318 GATCTCTTCAGGAGTTTCGGAATTTGATACACAG----- 286
Qy 1399 GTTATCACAAGGAATTTCCCAATTCATTTGATGATTTATGTTTAAACGACTTATTAACT 1458
Db 285 -----CCTGTTCTCATTTGTTGATCATATTTTCCAGCACAAGTGAATA 244
Qy 1459 CCNCTCGAATGTCGCAATTCGATGAGTTTAAATTTCCAGAACTCATGAATATCAA 1518
Db 243 CCNCTCGAATGTCGCAATTCGATGAGTTTAAATTTCCAGAACTCATGAATATCAA 184
Qy 1519 GCTGATGCTTATGCTAAAAAATTTGGGCTACAAAGCAAAATCTATGTAGGCTCTTAATGAT 1578

Db 183 GCTGATGCTTTGCTGAGCTTGCATATGCAAAAGATCTTCCTGCTCTAGTGAAA 124
 Qy 1579 CTACAAATCAAAACCTTTCCACCATGAATAGATGCTCTGATATCTAGCTATCATAT 1638
 Db 123 CTACAGGAAGAGAACTTTATCAACAATGAACACTGATCCATTGTTACTCAGCTTATCACTAC 64
 Qy 1639 TCCCATCCAACCTCTAGCTGAAG 1661
 Db 63 TCACATCCTCCTCTTGTGTAAG 41

RESULT 12

US-10-210-760A-39
 ; Sequence 39, Application US/10210760A
 ; Publication No. US20030204865A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wan, Jiangxin
 ; APPLICANT: Huang, Yafan
 ; APPLICANT: Delina Campbell, Mary-Jane
 ; APPLICANT: Kuzma, Monika Maria
 ; APPLICANT: Gilley, Angela Patricia
 ; TITLE OF INVENTION: Caax prenyl protease nucleic acids and polypeptides and
 ; TITLE OF INVENTION: methods of use thereof
 ; FILE REFERENCE: 22542-009
 ; CURRENT APPLICATION NUMBER: US/10/210,760A
 ; CURRENT FILING DATE: 2002-08-01
 ; PRIOR APPLICATION NUMBER: 60/309,396
 ; PRIOR FILING DATE: 2001-08-01
 ; PRIOR APPLICATION NUMBER: 60/337,084
 ; PRIOR FILING DATE: 2001-12-04
 ; NUMBER OF SEQ ID NOS: 75
 ; SOFTWARE: PatentIn ver. 2.1
 ; SEQ ID NO 39
 ; LENGTH: 5074
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: MuA-AtCpP
 ; OTHER INFORMATION: vector sequence
 US-10-210-760A-39

Query Match 7.6%; Score 139; DB 6; Length 5074;
 Best Local Similarity 46.3%; Pred. No. 2.9e-23;
 Matches 594; Conservative 0; Mismatches 635; Indels 54; Gaps 2;
 Qy 379 ATCCCGTGGAAATTAATCATTTCTGGGTTCTCGATTGGCCCAATTTCTTTCCGAATCTTAC 438
 Db 2870 ATTCCTTTTCATGGAACCGTCTGGGTTTATGATAGTGTATGATATTTTGGAGCGTAT 2929
 Qy 439 TTGAGGTACAGACGTACAGAAAGTATCTGAAACAAAGTTGCCACCTGTGCTGGAAGAC 498
 Db 2930 TTGGATCTGAGGCAACTCACTGCTCTCAAGCTTCCAACTCTCCCGAAACCTTGGTTGGT 2989
 Qy 499 GAAATTGATGATGAACCTTTTCAATAATCAAGGACTACTCCGGCCCAAGCCAAAGTTC 558
 Db 2990 GTAATTACCGAAGAGAGTTTGAGAAATCAAGACATACAGTCTTTGACAAAGCTATTTT 3049
 Qy 559 TCCATTTTTCGGTGAGCTCTATAACCTAGCCCAAAAGCTAGTTTTCATCAAAATACGACCTC 618
 Db 3050 CACTTTTTCATGAGTTTGTAACTATCTATGAGTCTGCAATTTTCTTTGGGATC 3109
 Qy 619 TTCCCTAAAATCTGGCAGATGCGGCTTTCTTTATTTGAATGAGTCTCTCCAGTCAGATTT 678
 Db 3110 TTGCCTTGGTTTGGAAAGATCTGAGGCTGTTT-----TACCAGGTTGGGCTT 3160
 Qy 679 CATATGGTCTCCACTGTCCGACAGATTTATGCTCTTGGGCTCTCTTATCAGTTGTCT 738
 Db 3161 GATCCGGAAGATGAATACTGCATACTCTTTCACTTTTGGGCTGGTGTATGACATGGTCA 3220
 Qy 739 ACCTTGGTTGATTTGCCACTCTCTTACTATAGCCATTTTGTCTCGAAAGAAAAATTTGGT 798
 Db 3221 CAGATCACTGATTTGCCATTTTCTTTGACTCAACTTTCGTTGATCGAGTCTCGGCATGGG 3280

RESULT 13

US-10-229-541A-134
 ; Sequence 134, Application US/10229541A
 ; Publication No. US20040010821A1
 ; GENERAL INFORMATION:
 ; APPLICANT: McCourt, Peter
 ; APPLICANT: Ghassemanian, Majid
 ; APPLICANT: Cutler, Sean
 ; APPLICANT: Bonetta, Darlo
 ; TITLE OF INVENTION: Stress Tolerance and Delayed Senescence in Plants
 ; FILE REFERENCE: 22542-007CIP2

Qy 799 TTCAATAAATTTGACCGTCCAACTATGGATCACCGATATGATCAAGAGTCTGACTTTGGCG 858
 Db 3281 TTCAACAAACAACAATATGGATGTTTCATTTAGGGAATGATCAAGGAACAATTTCCCTCTCT 3340
 Qy 859 TATGCTATTGGTGGCCCAATTCCTTTACCTGTTCTTAAAGATCTTTTGAATAAATTTCCCTACT 918
 Db 3341 GTCATACTAGGCCCAACCCATTGTTGCTGCGATAAATTTTCATAGTCCAGAAAGAGGTCCT 3400
 Qy 919 GATTTCTTTGGTACATATTATGGTCTTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 978
 Db 3401 TATCTTTGCCATCTATCTGTGGGCAATTCATGTTTATCTGCTCTCTAGTATGATGACTATA 3460
 Qy 979 ATTCCAGTCTTTCATCATGCTCCATGTTTAAATAGTTTCACTCCATTGGAGGAGCGTGAACCTG 1038
 Db 3461 TACCCGGTCTTGTATGACACCGCTCTTCAACAATAATCACTCTCTTCCAGATGGAGACCTC 3520
 Qy 1039 AAAAAATCTATTGAAAGTTTGGCCGATAGAGTTGGGTTTCCCTCTAGATAAGATTTTGTGTC 1098
 Db 3521 CGGAGAAAGATTGAGAAACTTGTCTTCTTCCCTAAAGTTTCCCTTTGAAGAAAGCTGTTTGT 3580
 Qy 1099 ATTGACGGCTCAAAAGATCTTCTCATTTCAACGCAATTTTTCACAGGTTTGGCATTCCACC 1158
 Db 3581 GTCGATGATCTTCAAGGTCAGGCCATAGCAATGCTTTACATGATATGTTGTTTCTTTAAGAAC 3640
 Qy 1159 TCCAAGAGAATTGTTTGTTCGACACTTTTGTGAAACAGTAAATTTCTACTGATGAAATACG 1218
 Db 3641 AAAGGATGTTCTTTATGATACGTTGATTCAGCAGTGCAGAAATGAGGATGAAATGTTG 3700
 Qy 1219 GCTGTTTGGCCCATGAAATCGGTCTACTGCGCAAAAAACCAATCGTTTAATATGTTGTCATC 1278
 Db 3701 GCGTTTATTCACACGAGCTTGGACATTTGGAATGGAATGGAATGGAATGGAATGGAATGGAAT 3760
 Qy 1279 TTTAGTCAATTGACACACTTCTCTCATTTTCTCCCTTTTCCAGCAGCATCTACAGAAATACA 1338
 Db 3761 GCAGTTCAAAATCCTTGGCTTCTTACAAATTTGGAGGATACACTCTTCTCAGAAACTCCACT 3820
 Qy 1339 TCATTTTACAAACACTTCCGCTTTTCTTATGAGAAGTCCACTGGCAGTCTTTTGTGATCCC 1398
 Db 3821 GATCTCTTCCAGGATTTCCGATTTGATACAG----- 3853
 Qy 1399 GTTATCACTAAGGAATTTCCCATTTATCATTTGGAATTTATGATTTTAAACGACTTATTAAC 1458
 Db 3854 -----CCTGTTCTCATTTGTTGATCATATTTTCAGCACACTGTAATA 3895
 Qy 1459 CCACTGAAATGCGCATGCAATTCGTCATGATTTTAAATTTCCAGAACTCATGATATCAA 1518
 Db 3896 CCACTGCAACATCTAGTAAAGCTTTGGCCTGAACTCGTTAGTGGAGCGTTTGGTTCAG 3955
 Qy 1519 GCTGATCTTATGCTAAAAAATTTGGGCTACAAGCAAAATCTATGTAGGGCTCTAATTTGAT 1578
 Db 3956 GCTGATCTTGTGCTGGAAGTTGATGCAAAAGATCTTCTGCTCTGCTCTAGTGAAA 4015
 Qy 1579 CTACAAATCAAAACCTTTCCACCATGAATGTAGATCTCTGTTATTTCTAGTATCATAT 1638
 Db 4016 CTACAGGAAGAGAACTTATCAACAATGAACACTGATCCATTGACTCAGCTTATCACTAC 4075
 Qy 1639 TCCCATCCAACCTAGCTGAAG 1661
 Db 4076 TCACATCCTCCTCTTGTGTAAG 4098

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; CURRENT APPLICATION NUMBER: US/10/229,541A
; CURRENT FILING DATE: 2002-08-27
; PRIOR APPLICATION NUMBER: 10/160,764
; PRIOR FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: 60/294,766
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/348,909
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: 10/210,760
; PRIOR FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: 60/309,396
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 09/191,687
; PRIOR FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 134
; LENGTH: 5074
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Plasmid
; OTHER INFORMATION: MUA-AtCDDP
US-10-229-541A-134

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Query Match	7.6%; Score 139; DB 6; Length 5074;
Best Local Similarity	46.3%; Pred. No. 2.9e-23;
Matches	594; Conservative 0; Mismatches 635; Indels 54; Gaps 2;
QY	379 ATCCCGTGGAAATTAATCATTTCTGGGGTCTCGATGCCCCAAATTTCTTTTCGAATCTTAC 438
Db	
QY	2870 ATTCTTTTCATGGAAACCGTGGGGTTTTATGATAGTATGATACATTTTGTGAGACGTAT 2929
Db	
QY	439 TTGACGTACAGACAGTACCAGAACTATCTGAACAAAGTTGGCCACCTGTGCTGGGAAGAC 498
Db	
QY	2930 TTGGATCTGAGGCAACTCACTGCTCTCAAGTCTCCAAGTCTCCCGAAAACTTTGGTTGGT 2989
Db	
QY	499 GAAATGATGATGAAACTTTTTCATAAATCAAGGAACCTACTCCCGGGCCAGGCCAAGTTC 558
Db	
QY	2990 GTAATTAGCCAAAGAGAAGTTTGGAAATACAGAGCATACAGTCTTGACAAAAAGCTATTTT 3049
Db	
QY	559 TCCATTTTCGGTGACGCTCTATAACCTAGCCCCAAAAGCTAGTTTTTCATCAAAATACGACCTC 618
Db	
QY	3050 CACTTTGTTCTAGAGTTTGTGTAACCTATTAATGAGCTCTGCAATTTTGTCTTTTGGGATC 3109
Db	
QY	619 TTCCCTAAAATCTGGCCATGCGCGTTTCTTTTATTTGAATGAGTCTCCGCCAGTCAGATTT 678
Db	
QY	3110 TTGCTTTGGTTTGGAAAGATGCTCGAGCTGTTT-----TACCAGAGTTGGGCGCTT 3160
Db	
QY	679 CATATGGTCTCCACTGTGCGCACAGAGTTTATGCTTCTTTGGGTCTCTTATCCAGTTTGTCT 738
Db	
QY	3161 GATCCGGAGAAATGAAATACTGCATACTCTTTTCATTTCTGGCTGGTGTATGACATGTCAC 3220
Db	
QY	739 ACCTTGGTTGATTTGGCCACTCTCTTACTATAGCCATTTTGTCTCCGGGAAGAAAAATTTGGT 798
Db	
QY	3221 CAGATCACTGATTTGGCCATTTTCTTTGTACTCAACTTTTCGTGATCGAGTCTCGGCATGGG 3280
Db	
QY	799 TTCAATAAATTTGACCGTCCAACTATGGATCACCGATATGATCAAGAGTCTGACTTTGGCG 858
Db	
QY	3281 TTCAACAAACAAACAATATGGATGTTTCATTAGGACATGATCAAGGAACATTCCTCTCT 3340
Db	
QY	859 TATGCTATTGTGGGCCCAATCCTTTACCTGTTCCTTAAAGATCTTTGATATAATTCCTTACT 918
Db	
QY	3341 GTCATACTAGGCCCAACCCATTTGTTGCTGCGATAAATTTTCATAGTCCAGAAAGAGAGTCC 3400
Db	
QY	919 GATTTCCCTTGGTGATCATTTATGCTCTCTTTGTTTCGTTGTCACAAATCTTTAGCCATCACAACT 978
Db	
QY	3401 TATCTTGGCATCTATCTGTGGGCATTCATGTTTATTCCTGCTCTCTAGTGATGATGACATATA 3460
Db	
QY	979 ATTCAGTCTTTCATCATGCCCATGTTTAAATAGTTTCACTCCATTTGGAGGACGGTGAAC 1038
Db	


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QY 499 GAAATTTGATGTAAGAACTTTTCATAAATCAAGGAAGTACTCCGGGCCAAGCCAAAGTTC 558
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
3460 GTAATTTAGCCAGAGAAAGTTTGAGAAATCACGAGCATACAGTCTTGACAAAAGCTATTTT 3519
QY 559 TCCATTTTCGGTGACGCTATACACCTAGCCAAAAGCTAGTTTTCATCAAAATACGACCTC 618
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
3520 CACTTTGTTCAUAGTTTGAACATACTATATATGGAATCTGCAATTTTGTCTTTGGGATC 3579
QY 619 TTCCCTAAATCTGGCACATGGCCGTTTCTTTATTTGAATGCGATCCTGCCAGTCAGATTT 678
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
3580 TTGCCCTTGGTTTGGGAAGATGTCGAGAGCTGTTT-----TACCGAGGTTGGGCCCTT 3630
QY 679 CATATGGTCTCCACTCTCGCACAGAGTTTATGCTTCTTGGGTCTCTTATCCAGTTTGTCT 738
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3631 GATCCGGAGAAATGAATTAATGCACTACTCTTTCATCTTGGCTGGTGTATGACATGGTCA 3690
QY 739 ACCTTGGTTGATTTGGCACTCTCTTACTATAGGCAATTTTGTCTGGAAGAAAATTTGGT 798
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
3691 CAGATCACTGATTTGGCAATTTCTTTGTACTCACTTTTGTGATCGAGTCTCGGCATGGG 3750
QY 799 TTCAATAAATTTGACGCTCCAACTATGGATCACCGATATGATCAAGAGTCTGACTTTGGCG 858
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3751 TTCAACAAAACAAACAATATGGAATGTTCAATTAGGACATGATCAAGGAACATTCCTCTCT 3810
QY 859 TATGCTATTGGTGGCCCAATCCTTTTACCTGTTTCTTAAAGATCTTTGATAAATCCCTACT 918
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3811 GTCATACATAGGCCCAACCCATTTGTCGCAATAATTTTCATAGTCCAGAAAAGGAGTCTCT 3870
QY 919 GATTTCCCTTTGGTACATTAATGGTCTTCTGTTGTTGCCAAATCTTAGCCATGACAATC 978
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3871 TATCTTGGCACTATCTGTGGGCAATCAUGTTTATCCTGTCTAGTGATGACTATA 3930
QY 979 ATTCCAGTCTTCATCATGCCCATGTTTAAATAGTTCATCCATTTGGAGGACGGTGAAC TG 1038
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3931 TACCCGGTCTTTAGTACACCGCTCTTCAACAAATTCACCTCTTCCAGATGGAGACCTC 3990
QY 1039 AAAAAATCTATTGAAAGTTTGGCGGATAGAGTTGGGTCCCTCTAGATAAGATTTTGTGTC 1098
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3991 CGGAGAGAAGATTGAGAACTTGCTTCTCCCTAAAGTTTCCCTTTGAAGAAGCTGTTGTT 4050
QY 1099 ATTGACGGCTCAAAAAGATCTTCTCATTTCAACGCAATATTTACAGGTTTGCCATTCACC 1158
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4051 GTCGATGGATCTCAAGGTCAAGCCATAGCAATGCTTACATGATGTTTCTTTAAGAAC 4110
QY 1159 TCCAAGAGAATGTTTTGTTTCGACACTTTAGTGAACAGTAATTTCTACTGATGAAATFACG 1218
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4111 AAAAGGATTTGTTTATGATACGTTGATTCAGCAGTGCAAGAAATGAGGATGAAATTTGTG 4170
QY 1219 GCTGTTTTGGCCCATGAAATCGGTCACTGGCAAAAACCAACCATCGTTAATATGGTCATC 1278
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4171 GCGGTTATGACACGAGCTTGGACATTTGAAAACCTGAATCACACTACATACCTCGTTCAAT 4230
QY 1279 TTTAGTCAATTGACACCTTCTCATTTTCTCCCTTTTCCACGACATCTACAGAAATACA 1338
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4231 GCAGTTCAAATCTTGCTTCTTACAATTTGGAGGATACACTCTTCTCAGAAAACCTCCACT 4290
QY 1339 TCAATTTTACAACACTTTGGCTTTTCTTTAGAGAAGTCCACTGGCAGTTTTTGTGATCCC 1398
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
4291 GATCTCTTCAGGAGTTTCGGATTTGATACACAG----- 4323
QY 1399 GTTATCACTAAGGAATTTCCCAATTTATCATTTGATTTATTTTAAAGCTTATTAAC 1458
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
4324 -----CCTGTTCTCATTTGGTTTGATCATATTTACGACACTGTAAATA 4365
QY 1459 CCACCTGAATGTGCCATTCGATGAGTTTAAATTTCCAGAACTCATGAATATCAA 1518
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
4366 CCACTGCAACATCTAGTAAGCTTTGGCTGNAACCTCGTGTAGTCGAGGCTTTGAGTTTCAG 4425
QY 1519 GCTGATGCTTATGTAATAAATTTGGGCTTACAGCAAAATCTATGTAGGGCTCTTAATTTGAT 1578
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4426 GCTGATGCTTTGTGTGAAGCTTGACTATATGCAAAAAGATCTTCGTCCTGCTCTAGTGAAA 4485
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QY 1579 CTACAAATCAAAAACCTTTTCCACCATGAATGTAGATCCTCTGTATTTCTAGCTATCATTTAT 1638
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
4486 CTACAGGAAGAGAACTTATCAACAATGAACAATGATCCATTGTACTCAGCTTATCACTAC 4545
QY 1639 TCCCATCCAACTCTAGCTGAAAAG 1661
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
4546 TCACATCCTCCTCTTGTGTTGAAAAG 4568
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Search completed: December 9, 2005, 02:54:50
Job time : 1463.76 secs

Result No.	Score	Query Match	Length	DB	ID	Description
C 1	54.6	3.0	165627	7	US-11-121-086-89	Sequence 89, Appl
C 2	54.6	3.0	184868	7	US-11-121-086-88	Sequence 88, Appl
C 3	51.6	2.8	5169	6	US-10-750-185-31500	Sequence 31500, A
C 4	48.6	2.7	7576	6	US-10-750-185-31500	Sequence 4, Appl
C 5	47.5	2.6	2306	6	US-10-750-185-37284	Sequence 37284, A
C 6	47.4	2.6	2750	9	US-11-008-331-1	Sequence 1, Appl
C 7	47.4	2.6	189539	7	US-11-121-086-16	Sequence 16, Appl
C 8	47.2	2.6	2436	6	US-10-750-185-49984	Sequence 49984, A
C 9	47.2	2.6	142303	7	US-11-121-086-42	Sequence 42, Appl
C 10	47	2.6	204	6	US-10-499-715-32	Sequence 32, Appl
C 11	46.8	2.6	3001	7	US-11-145-703-215	Sequence 215, Appl
C 12	46.4	2.5	1140	6	US-10-750-185-43144	Sequence 43144, A
C 13	45.8	2.5	758	6	US-10-750-185-48095	Sequence 48095, A
C 14	45.6	2.5	2081	6	US-10-750-185-51383	Sequence 51383, A
C 15	45.6	2.5	4018	6	US-10-750-185-51049	Sequence 51049, A
C 16	45.4	2.5	193084	7	US-11-121-086-82	Sequence 82, Appl
C 17	45.2	2.5	1448	6	US-10-750-185-26938	Sequence 26938, A
C 18	45.2	2.5	2487	6	US-10-689-742-165	Sequence 165, Appl
C 19	45	2.5	3846	7	US-11-102-240-37	Sequence 37, Appl
C 20	45	2.5	3501	6	US-11-101-8268-37	Sequence 37, Appl
C 21	45	2.5	156250	7	US-11-121-086-86	Sequence 86, Appl
C 22	45	2.5	156260	7	US-11-121-086-87	Sequence 87, Appl
C 23	45	2.5	184868	7	US-11-121-086-88	Sequence 88, Appl


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; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 37284
; LENGTH: 2306
; TYPE: DNA
; ORGANISM: Bovine 19866880574576
US-10-185-37284

Query Match          2.6%; Score 47.6; DB 6; Length 2306;
Best Local Similarity 72.1%; Pred. No. 0.041;
Matches 62; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 27 ACGAAGCCCTTACACACACACACATACATCTTACATACATACATACATACATACATACATAT 86
Db 1746 ACGCACACACACACACACACACACATATATACATATACATATATATATATATATATAT 1805

QY 87 ATGTAACTTGTATATTCCTAT 112
Db 1806 ATATATATATATATATATATATATATATATATATATATATATATATATATATATATAT 1831

RESULT 6
US-11-008-331-1
; Sequence 1, Application US/11008331
; Publication No. US20050244925A1
; GENERAL INFORMATION:
; APPLICANT: Genencor International, Inc.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms
; FILE REFERENCE: GC386-PC1
; CURRENT APPLICATION NUMBER: US/11/008,331
; CURRENT FILING DATE: 2004-12-08
; PRIOR APPLICATION NUMBER: EP9719637.2
; PRIOR FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 2760
; TYPE: DNA
; ORGANISM: Bacillus subtilis
US-11-008-331-1

Query Match          2.6%; Score 47.4; DB 9; Length 2760;
Best Local Similarity 50.5%; Pred. No. 0.05;
Matches 142; Conservative 0; Mismatches 136; Indels 3; Gaps 1;

QY 982 CCAAGTCTTCATCATGCCATGTTTAAATAGTTCACTCCATTCGAGCGGTGAAGTGA 1041
Db 908 CCGGTCAATATCGATCCCTTTATACAAATGATTTTATCCGCTGAAAAAACAAGAGCTTGA 967

QY 1042 AAATCTATTGAAAGTTTGGCCGATAGAGTTGGTTCCCTCTAGATAAGATTTTGTCAAT 1101
Db 968 AGCAAAATTTAGAGCTGGCAGATGAAGCCATATATCCGGCTGACCATGTATATGAAGTG 1027

QY 1102 GACGGCTCAAAAGATCTTCTCATTCAAACGATATTTTACAGGTTTGCATTCACCTCC 1161
Db 1028 AACATGTGAGAAAAACAATCGCTGAATGCTATGTTTACAGGAAT---TGGGGCCCAAT 1084

QY 1162 AAGAGAAATGTTTCTTGGACACTTTAGTGAACAGTAATTTCTATGATGAATACGGCT 1221
Db 1085 AAACCGATTTGATTTGTTGGGATACGAGCTGGAACAAACTTGCAGTTTCAGAAATTCGTTT 1144

QY 1222 GTTTTGGGCCATGAATCGTCACTGGCAAAAAAACCCACAT 1262
Db 1145 ATTATGGGCCAGAAATGGGCCATTTATGTCATGAAGCAGT 1185

RESULT 7
US-11-121-086-16
; Sequence 16, Application US/11121086
; Publication No. US20050266459A1

; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121.086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: Patent in version 3.3
; SEQ ID NO 16
; LENGTH: 189539
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-16

Query Match          2.6%; Score 47.4; DB 7; Length 189539;
Best Local Similarity 68.0%; Pred. No. 0.33;
Matches 66; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY 38 TACACACACACACATACATCTTACATACATACATACATACATACATACATATATATATAT 97
Db 39563 TACATATATATATATATATATATATATATATATATATATATATATATATATATATAT 39622

QY 98 TATATTCATTCCTATTAAACCAAAAAGAGCAATTAA 134
Db 39623 TATATATGATATATATATATATATATATATATATATATATATATATATATATATAT 39659

RESULT 8
US-10-750-185-49984/C
; Sequence 49984, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 49984
; LENGTH: 2436
; TYPE: DNA
; ORGANISM: Bovine 19866880838322
US-10-750-185-49984

Query Match          2.6%; Score 47.2; DB 6; Length 2436;
Best Local Similarity 59.8%; Pred. No. 0.053;
Matches 79; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 27 ACGAAGCCCTTACACACACACACATACATCTTACATACATACATACATACATACATATAT 86
Db 1019 ACTCATCTTGAATATACACACACACACACACACACACATACATACATATATATATAT 960

QY 87 ATGTAACTTGTATATTCATTCCTATTAAACCAAAAAGAGCAATTAACTTTTCCTCTT 146
Db 959 ATATATATATGAATATCTTTACTTTTTTAACTAATGAACACAGAAATAATATTTGCATA 900

QY 147 TTTCTACGTCAT 158
Db 899 TATATTCCTCAT 888
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; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 51049
; LENGTH: 4018
; TYPE: DNA
; ORGANISM: Bovine 19866881035953
US-10-750-185-51049

Query Match      2.5%; Score 45.6; DB 6; Length 4018;
Best Local Similarity 62.1%; Pred. No. 0.16;
Matches 72; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

Qy      9 TTTTTCCTATCTTCAACAGCAACGCTTACACACACACACATACATCTACATACAT 68
Db      1942 TCTCTTTATGGTCCAGTTCTCACATCCGTCATGAATATACATATACATATATAT 1883

Qy      69 ACATACAAATATACATATATGTAACCTTGTATATTCATTCTTAAACCAAAAGA 124
Db      1882 ATATATATATATATATATATACTACATGATATATATATATATATATACTACATGA 1827

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GenCore version 5.1.6
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Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA New:
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3: /cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
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10: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	58.4	2.0	177175	7	US-11-121-086-79 Sequence 79, Appl
2	55.8	1.9	600	6	US-10-750-185-20190 Sequence 20190, A
3	55.8	1.9	2531	6	US-10-750-185-40015 Sequence 40015, A
4	46.6	1.6	173602	7	US-11-121-086-25 Sequence 25, Appl
5	45.6	1.5	1082144	7	US-11-117-187-211 Sequence 211, Appl
6	45.4	1.5	799	6	US-10-750-185-47320 Sequence 47320, A
7	45.2	1.5	1146	6	US-10-750-185-60546 Sequence 60546, A
8	45	1.5	1204	6	US-10-750-185-27810 Sequence 27810, A
9	45	1.5	2828	6	US-10-750-185-53409 Sequence 53409, A
10	44.8	1.5	1486	6	US-10-750-185-47204 Sequence 47204, A
11	44.6	1.5	151169	7	US-11-121-086-38 Sequence 38, Appl
12	44.2	1.5	156735	7	US-11-121-086-93 Sequence 93, Appl
13	43.6	1.5	1110	7	US-11-186-284-219 Sequence 219, Appl
14	43.6	1.5	1115	7	US-11-186-284-218 Sequence 218, Appl
15	43.6	1.5	1163	7	US-11-186-284-216 Sequence 216, Appl
16	42.8	1.5	3059	6	US-10-750-185-25437 Sequence 25437, A
17	42.8	1.5	3254	6	US-10-793-626-4202 Sequence 4202, Ap
18	42.8	1.5	3520	6	US-10-793-626-3549 Sequence 3549, Ap
19	42.6	1.4	150173	7	US-11-112-908-26 Sequence 26, Appl
20	42.6	1.4	171247	7	US-11-112-908-27 Sequence 27, Appl
21	42.6	1.4	172781	7	US-11-112-908-25 Sequence 25, Appl
22	42.2	1.4	171486	7	US-11-121-086-105 Sequence 105, Appl
23	41.8	1.4	138821	7	US-11-121-086-80 Sequence 80, Appl

c	24	41.6	1.4	1438	6	US-10-750-185-43641	Sequence 43641, A
	25	41.6	1.4	146656	7	US-11-121-086-68	Sequence 68, Appl
	26	41.6	1.4	190882	7	US-11-121-086-69	Sequence 69, Appl
	27	41.4	1.4	1464	6	US-10-750-185-33014	Sequence 33014, A
	28	41.4	1.4	3207	6	US-10-750-185-62659	Sequence 62659, A
c	29	41.2	1.4	139054	7	US-11-121-086-96	Sequence 96, Appl
	30	41	1.4	173602	7	US-11-121-086-25	Sequence 25, Appl
c	31	40.8	1.4	842	6	US-10-750-185-48632	Sequence 48632, A
c	32	40.6	1.4	2180	6	US-10-750-185-63963	Sequence 63963, A
	33	40.4	1.4	1732	6	US-10-750-185-60909	Sequence 60909, A
	34	40.4	1.4	1926	6	US-10-750-185-52315	Sequence 52315, A
	35	40.4	1.4	143389	7	US-11-112-908-30	Sequence 30, Appl
	36	40.4	1.4	150314	7	US-11-112-908-24	Sequence 24, Appl
	37	40.2	1.4	182303	7	US-11-121-086-45	Sequence 45, Appl
	38	40	1.4	79528	6	US-10-276-233A-6	Sequence 6, Appl
c	39	40	1.4	340000	7	US-11-102-978-3	Sequence 3, Appl
	40	40	1.4	1082144	7	US-11-117-187-211	Sequence 211, App
c	41	39.6	1.3	1483	6	US-10-750-185-39052	Sequence 39052, A
c	42	39.4	1.3	2392	7	US-11-045-802-4	Sequence 4, Appl
c	43	39.4	1.3	3819	6	US-10-131-826A-405	Sequence 405, App
c	44	39.2	1.3	496	6	US-10-131-826A-533	Sequence 533, App
	45	39.2	1.3	171486	7	US-11-121-086-105	Sequence 105, App

ALIGNMENTS

RESULT 1
US-11-121-086-79
; Sequence 79, Application US/1121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121.086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: Patent in version 3.3
; SEQ ID NO 79
; LENGTH: 177175
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-79

Query Match	2.0%	Score 58.4;	DB 7;	Length 177175;
Best Local Similarity	47.8%	Pred. No. 0.0059;		
Matches	170;	Conservative	0;	Mismatches 186; Indels 0; Gaps 0;
QY	586	AATGATTAAATTCGAAACCAATCTTGGCGTAGCGAAGATTCATATCCCTATTTCTGTAG	645	
DB	55385	AATGTTGAATTCATAGACGAGGAAACCTTTAGAGGTATATATATGTGTATATATA	55444	
QY	646	CGAAGTACAAAATAAAACATTCGTTACTTCTTCTTATAGATATAG	705	
DB	55445	TTTAGTAT	55504	
QY	706	ATATATGTATGTTGCTTATAGATGAGGTATTTATCGGCTCCTTTGTATCCCTATTA	765	
DB	55505	ATATATTTATTA	55564	
QY	766	TTAATAAAATTCCTTTTAAATGCAATTTCTGGTCTCTTTTGTGCTCTCTATTTTTT	825	
DB	55565	CTTATATATTCATATACACAAAATGAGGATGTTAAACATTTTCTACTATTATAACAT	55624	
QY	826	TTTTTTGGACCACTGGATGGAAAACCTTTGATGATTTTATACCTTTATTTTAACTACT	885	
DB	55625	TTTATTCCTATGGTGGTCATACGTCCTCAAGTTGCTATTAATTTTGGCTTTTAAT	55684	
QY	886	AAAATATCGAGATTTTCAGGAACAAACATAGATTTTCTTTGTCAAGAAAAATAA	941	

Db 55685 TAATAAGATAATTTCAATGTAATAAAACGGGAATTTGTAATATATATATATAAAACATA 55740
||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||

RESULT 2

US-10-750-185-20190
; Sequence 20190, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20190
; LENGTH: 600
; TYPE: DNA
; ORGANISM: Bovine MMBT04400
US-10-750-185-20190

Query Match 1.9%; Score 55.8; DB 6; Length 600;
Best Local Similarity 55.4%; Pred. No. 0.002;
Matches 108; Conservative 0; Mismatches 87; Indels 0; Gaps 0;
Qy 673 AAAAAATTCGTTACTCTTTCTTATAGATATAGATATATGTTGCTTATAGATGA 732
Db 394 AACTTATCTGGATTTTTCAGATACATGCTGTAATCATATATATATATATAA 453
Qy 733 AGGTATTTATCGGTCCTTTGTAATCCCTATTAATAAAATCTTTTAAATGCAAT 792
Db 454 AGTCAATATTCCTCAAAATCTTACAAATCTTTTATATATATATATATATAT 513
Qy 793 TCTGGTCTCTTTGTTGCTTCTGTAATTTTCTTTTGGACACCTGGATGAAACCT 852
Db 514 TCATTCCTGTTCTATGCTCTTATATATATGTTCTTTCTTGTGCAATGAACTAATGGCT 573
Qy 853 TTGATGATTTTATTA 867
Db 574 TTGTGAATTTTTC 588

RESULT 3

US-10-750-185-40015
; Sequence 40015, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 40015
; LENGTH: 2531

; TYPE: DNA
; ORGANISM: Bovine 19866880831842
US-10-750-185-40015

Query Match 1.9%; Score 55.8; DB 6; Length 2531;
Best Local Similarity 55.4%; Pred. No. 0.0036;
Matches 108; Conservative 0; Mismatches 87; Indels 0; Gaps 0;
Qy 673 AAAAAATTCGTTACTCTTTCTTATAGATATAGATATATGTTGCTTATAGATGA 732
Db 950 AACTTATCTGGATTTTTCAGATACATGCTGTAATCATATATATATAA 1009
Qy 733 AGGTATTTATCGGTCCTTTGTAATCCCTATTAATAAAATCTTTTAAATGCAAT 792
Db 1010 AGTCAATATTCCTCAAAATCTTACAAATCTTTTATATATATATATATAT 1069
Qy 793 TCTGGTCTCTTTGTTGCTTCTGTAATTTTCTTTTGGACACCTGGATGAAACCT 852
Db 1070 TCATTCCTGTTCTATGCTTCTATATATGTTCTTTCTTGTGCAATGAACTAATGGCT 1129
Qy 853 TTGATGATTTTATTA 867
Db 1130 TTGTGAATTTTTC 1144

RESULT 4

US-11-121-086-25/c
; Sequence 25, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 25
; LENGTH: 173602
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-25

Query Match 1.6%; Score 46.6; DB 7; Length 173602;
Best Local Similarity 49.5%; Pred. No. 2.5;
Matches 149; Conservative 0; Mismatches 149; Indels 3; Gaps 1;
Qy 653 AAAAAATAAAAAACATTTAGAAAAATTCCTGTTACTTTTCTTATAGATATAGATATATG 712
Db 136565 ACATAAACATATAAATAATATAATACTATAATAATAATAATAATAATAATAATAA 136506
Qy 713 TATGTTTCTTATAGATGAAGTATTTATCGGTCCTTTGTTATTCCTTATTTAATAA 772
Db 136505 TATATATATATTTATAATAATAGTATATAT---TTATATAGATTTATAATTTATAT 136449
Qy 773 AATTCCTTTAAATGCAATTTCTGGTGCCTTTTGTGTCCTCTGTAATTTTTTTTTTTTG 832
Db 136448 ATTTTATATATATATAATAATTTATATAATTTATATATATATATAATAATAATAT 136389
Qy 833 GACCACTGGATGGAACCTTTTGATGATTTTATACCTTTTATTTTAAGTTACTATAATAT 892
Db 136388 TTATATATATATATAAATTTATATATATATATATATATATAATAATAATAATAAT 136329
Qy 893 CGAGATTTTCAGGAACAAACATAGAAATTTCTTTGTCAAGAAAAATAAACCGAAAAAT 952
Db 136328 ATATAATATAATAAATTTATATAATTTATATATATATATATATATAATAATAATA 136269
Qy 953 T 953
Db 136268 T 136268


```
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 27810
; LENGTH: 1204
; TYPE: DNA
; ORGANISM: Bovine 19866881865325
US-10-750-185-27810

Query Match      1.5%; Score 45; DB 6; Length 1204;
Best Local Similarity 45.2%; Pred. No. 0.67;
Matches 165; Conservative 0; Mismatches 200; Indels 0; Gaps 0;

Qy 690 TTCTTATAGATATAGATATATGATGTTGGTTCCTTATAGATGAGGTATTTATCGCGTCC 749
Db 1203 TATGTTAAAGTAAATTTAGTTACATGTATATGTTTCTTATCAGTGTCCCATATGATTC 1144

Qy 750 TTTGTATTCCTATTATTAATAAAATTCCTTTAAATGCAATTTCTGGTGCCTCTTTTGT 809
Db 1143 TTAATATTTTCATTAAGAAATTTTATATTTAAATAATTTCTTATTCATTCCTCTCT 1084

Qy 810 GCTTCGTATTTTTTTTTTTGGACCACTGGATGAGAAACCTTTGATGATTTTATACC 869
Db 1083 CCAACTTCTGTCTGAATGCTGGAACTCCAAATGTAATTTATTTGGTGGTTTTTTCCTC 1024

Qy 870 TTTATTTTAAAGTAAATATCGAGATTTTCAGGACAAACATAGAAATTTCTTTGTC 929
Db 1023 CTGATCTTAAATCATTCAGAAATAGTTCTCTGTCCTCGCCAAAGAGGTGTGTTAT 964

Qy 930 AAGAAAAATAAACGAAATAAATGATGCTTTGACTACTGACTGTCTGTCTATGAGAGAA 989
Db 963 CTGACTGCTCAACCCAGGATGAGTGCATATTTTCACTTTATTCCTCCAGTCAGCT 904

Qy 990 CCAGAACAGCAAGCTACAAATTCACAACTTCAGTCTCTATGATCTCCATATCCT 1049
Db 903 CCTGGACTCAAACTTCCTTTTGTGCAAAATCTCATGTTTGCATTCCTCAATTTCTTTGACC 844

Qy 1050 ATGTG 1054
Db 843 TTGTG 839

RESULT 9
US-10-750-185-53409/c
; Sequence 53409, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 53409
; LENGTH: 2828
; TYPE: DNA
; ORGANISM: Bovine 19866880569397
US-10-750-185-53409

Query Match      1.5%; Score 45; DB 6; Length 2828;
Best Local Similarity 53.0%; Pred. No. 0.96;
Matches 96; Conservative 0; Mismatches 85; Indels 0; Gaps 0;

Qy 609 TTGGCGTAGCGAAGATTGATATCCCTATTTCTGTAGCAAGTGACAAAAATAAAAAACA 668
Db 1762 TTCTCCAGCAATTGTTGATATCTAGATCAATTTTGTAGTAAAAATAAAAAATCACAGT 1703

Qy 669 TTAGAAAAAATTCCTCGTTACTTTTCTTATAGATATAGATATATGTTTGTCTTATAG 728
Db 1702 TTAGAACCTATAGATCTGCTCTCTCTTTTGAAGGTAATGACACTTTCTCTCTGT 1643

Qy 729 ATGAAGGTATTATTCGCGTCTTGTATTTCCCTATTATTAATAAAATCTTTTAAAAATGC 788
Db 1642 TTAAAGATAAGAAACGGAATGATTCGATTCCTATTTTAATTAGATTTTATCAACAATGA 1583

Qy 789 A 789
Db 1582 A 1582

RESULT 10
US-10-750-185-47204
; Sequence 47204, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 47204
; LENGTH: 1486
; TYPE: DNA
; ORGANISM: Bovine 19866880599831
US-10-750-185-47204

Query Match      1.5%; Score 44.8; DB 6; Length 1486;
Best Local Similarity 43.4%; Pred. No. 0.81;
Matches 205; Conservative 0; Mismatches 267; Indels 0; Gaps 0;

Qy 496 TGTGAACCTTGGAAATTTAATAAGGACATTAAGGAAACTTTTAATTCAGTTTGAAGCTG 555
Db 325 TGTGTCTTTTAAATTTACATTCAGAAAAAGACACCATTCAATATAATAATGTTTATATT 384

Qy 556 CCTATGTTGTAGTTTATTGCGTTCGAGTAATGATTAATTTGAAAAACCATCTTGGCGT 615
Db 385 CTTAGTGTCTACTTCTATATGATGAGAAAAATGAAATTTTACTCTCTATATGAAGT 444

Qy 616 AGCGAAGATTGATATCCCTATTTCTGTAGGCAAGTGACAAAAATAAAAAACATTAGAAA 675
Db 445 ATAAATGATTTTATAATATTAGTTTCATGTGACAAATACAGTATTGAAATCTTTTATAGA 504

Qy 676 AAATTCGTGTTACTTTTCTTATAGATATAGATATATGTTTGTCTTATAGATGAAG 735
Db 505 CTATACTCCATTGAAAGTTTATTACAAAATAATGACTATATTTTGTGCTGTGTGACAAAT 564
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QY 736 TATTATCGGCTCTTGTGATTCCTATTATTAATAAATCTTTTAAAAATGCAATTTCT 795
DB 565 AGCTTTGTTACTTACTATTTTACATTTACATAATATTGATAGTTTGATCACCCTAATA 624
QY 796 GGTGCTCTTTTGTGCTCTCTGTAATTTTTTTTTTTTGGACCACTGGATGGAACCTTTG 855
DB 625 CATACCTCTAICTTGGCCCTCTCTCCCTCTGCCCACTACTAGTTTATTATTTTCT 684
QY 856 ATGATTTTATACCTTTATTTTAACTTACTAAATATCGAGATTTTCAGAACAAACATA 915
DB 685 ATTTTGAATATACATTTTGTGTTTGTGTTTGTAGATTCTCTATATGAGTGAACAGAAAT 744
QY 916 GAATTTTCTTCTGCAAGAAAATAAAACGAAATAAATGATCTTTGACTAC 967
DB 745 TGACTTTCTCTGGCTTATTTCAAGAGCAATACCCCTAGTCCATCTAC 796

RESULT 11
US-11-121-086-38
; Sequence 38, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 38
; LENGTH: 151169
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-38

Query Match 1.5%; Score 44.6; DB 7; Length 151169;
Best Local Similarity 49.5%; Pred. No. 6.5;
Matches 148; Conservative 0; Mismatches 144; Indels 7; Gaps 1;

QY 658 ATAAAAACATTAGAAAAATTCGTTACTTTCTTATAGATATAGATATGATG 717
DB 47316 ATATTATATATATATATATTTATTTATATATATATATATTTATATATAAT 47375
QY 718 TTTGCTTATAGATGAAGGTATTATTCGGCTCTTTGTATTCCTATTATTATAAAATTC 777
DB 47376 ATATAATACATAAATTAATATAT- - - - -TATATATAATAATAATATATATTA 47428
QY 778 TTTTAAATGCAATTTCTGGTCTCTTTGTTGCTTCTGTATTTTCTTTTGGACCA 837
DB 47429 TATTCATATATATATATATTTATATATATATATATATATATATATATATAT 47488
QY 838 CTGGATGGAACCTTTGATGATTTTATACCTTTTATTTAGTTTACTAAATATCGAGA 897
DB 47489 TTATATATATAAATATAATATATATTTTATATAAATATATATCTTTATATAATA 47548
QY 898 TTTTCAGGAACAAACATAGAAATTTCTTTGTCAAGAAAATAAAACGAAATAAATGAT 956
DB 47549 TATATATAAATATATATATATATATATATAAATATATATATAATAAATATAT 47607

RESULT 12
US-11-121-086-93/c
; Sequence 93, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
```

```
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 93
; LENGTH: 156735
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-93

Query Match 1.5%; Score 44.2; DB 7; Length 156735;
Best Local Similarity 52.4%; Pred. No. 8;
Matches 121; Conservative 0; Mismatches 108; Indels 2; Gaps 1;

QY 695 TATAGATATAGATATATGATGTTTCTTATAGATGAAGGTATTATTCGGCTCTTGT 754
DB 142565 TATATTTATATATAAATGATAAATACATTTATATATAAGTATTTATATATACTTAT 142506
QY 755 ATTCCTATTATTAATAAAATCTTTTAAAAATGCAATTTCTGGTCTCTTTGTTGCTTC 814
DB 142505 AGAAATGATTTTATATTTTGTATTAATAATTTACAT--AAATATATTTGCATATAT 142448
QY 815 TGTATTTTCTTTTGGACCACTGGATGGAACCTTTGATGATTTTATACCTTTAT 874
DB 142447 TATATATCTCTTATGATATAAGTATATCAATAAATATATATTTATGATATAAATTTAT 142388
QY 875 TTTAAGTTACTAAATATCGAGATTTTCAGGAACAAACATAGAAATTTCTT 925
DB 142387 ATAAATGTTTATAAATTTTATGTTTATTAATAATAAATATATTTATGTT 142337

RESULT 13
US-11-186-284-219/c
; Sequence 219, Application US/11186284
; Publication No. US20050266493A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Berger, Allison
; APPLICANT: Guillemette, Tracy L.
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Thibodeau, Stephen N.
; APPLICANT: Bugart, Lawrence J.
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF COLON CANCER
; FILE REFERENCE: MPM01-029P2RNM
; CURRENT APPLICATION NUMBER: US/11/186,284
; CURRENT FILING DATE: 2005-07-21
; PRIOR APPLICATION NUMBER: US/10/301,822
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/339,971
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/361,978
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/381,988
; PRIOR FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 219
; LENGTH: 1110
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (49)...(804)
US-11-186-284-219

Query Match 1.5%; Score 43.6; DB 7; Length 1110;
Best Local Similarity 52.2%; Pred. No. 1.3;
Matches 97; Conservative 0; Mismatches 89; Indels 0; Gaps 0;
```

```
QY 2215 TTTTCTTTTAAAGGTTTTTATTTGGTCTCCTAGAAATTTAAGGTCCTTAGTTAGTTTG 2274
Db 1109 TTTTCTTTTAAAGGTTTTTATTTGGTCTCCTAGAAATTTAAGGTCCTTAGTTAGTTTG 1050
QY 2275 GTTTGTTTGTGGGTTTACATATTTTCAATTCAAAGGAGAAATTTAGCTGTCTTTTATAATG 2334
Db 1049 TTTTCTTTTAAAGGTTTTTATTTGGTCTCCTAGAAATTTAAGGTCCTTAGTTAGTTTG 990
QY 2335 TCCAATAGAGATAACGAGCATGCTGGTGTACTACATCAAGCGATAAGCGCATCGCTAGT 2394
Db 989 TTTATTGGAGATAAAACAGCGAAGTCCCATACATACCATACCTTACAAAGACACAAAGGTGCG 930
QY 2395 CAAAGG 2400
Db 929 CAGACG 924

RESULT 14
US-11-186-284-218/c
; Sequence 218, Application US/11186284
; Publication No. US20050266493A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Berger, Allison
; APPLICANT: Guillemette, Tracy L.
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Burgart, Lawrence J.
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF COLON CANCER
; FILE REFERENCE: MPM01-029P2RNM
; CURRENT APPLICATION NUMBER: US/11/186,284
; PRIOR FILING DATE: 2005-07-21
; PRIOR APPLICATION NUMBER: US/10/301,822
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/339,971
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/361,978
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/381,988
; PRIOR FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 218
; LENGTH: 1115
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (49)...(699)
US-11-186-284-218

Query Match 1.5%; Score 43.6; DB 7; Length 1115;
Best Local Similarity 52.2%; Pred. No. 1.3;
Matches 97; Conservative 0; Mismatches 89; Indels 0; Gaps 0;

QY 2215 TTTTCTTTTAAAGGTTTTTATTTGGTCTCCTAGAAATTTAAGGTCCTTAGTTAGTTTG 2274
Db 1114 TTTTCTTTTAAAGGTTTTTATTTGGTCTCCTAGAAATTTAAGGTCCTTAGTTAGTTTG 1055
QY 2275 GTTTGTTTGTGGGTTTACATATTTTCAATTCAAAGGAGAAATTTAGCTGTCTTTTATAATG 2334
Db 1054 TTTTCTTTTAAAGGTTTTTATTTGGTCTCCTAGAAATTTAAGGTCCTTAGTTAGTTTG 995
QY 2335 TCCAATAGAGATAACGAGCATGCTGGTGTACTACATCAAGCGATAAGCGCATCGCTAGT 2394
Db 994 TTTATTGGAGATAAAACAGCGAAGTCCCATACATACCATACCTTACAAAGACACAAAGGTGCG 935
QY 2395 CAAAGG 2400
```

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Db 934 CAGACG 929

RESULT 15
US-11-186-284-216/c
; Sequence 216, Application US/11186284
; Publication No. US20050266493A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Berger, Allison
; APPLICANT: Guillemette, Tracy L.
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Burgart, Lawrence J.
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF COLON CANCER
; FILE REFERENCE: MPM01-029P2RNM
; CURRENT APPLICATION NUMBER: US/11/186,284
; PRIOR FILING DATE: 2005-07-21
; PRIOR APPLICATION NUMBER: US/10/301,822
; PRIOR FILING DATE: 2002-11-21
; PRIOR APPLICATION NUMBER: US 60/339,971
; PRIOR FILING DATE: 2001-12-10
; PRIOR APPLICATION NUMBER: US 60/361,978
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: US 60/381,988
; PRIOR FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 216
; LENGTH: 1163
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (49)...(699)
US-11-186-284-216

Query Match 1.5%; Score 43.6; DB 7; Length 1163;
Best Local Similarity 52.2%; Pred. No. 1.3;
Matches 97; Conservative 0; Mismatches 89; Indels 0; Gaps 0;

QY 2215 TTTTCTTTTAAAGGTTTTTATTTGGTCTCCTAGAAATTTAAGGTCCTTAGTTAGTTTG 2274
Db 1162 TTTTCTTTTAAAGGTTTTTATTTGGTCTCCTAGAAATTTAAGGTCCTTAGTTAGTTTG 1103
QY 2275 GTTTGTTTGTGGGTTTACATATTTTCAATTCAAAGGAGAAATTTAGCTGTCTTTTATAATG 2334
Db 1102 TTTTCTTTTAAAGGTTTTTATTTGGTCTCCTAGAAATTTAAGGTCCTTAGTTAGTTTG 1043
QY 2335 TCCAATAGAGATAACGAGCATGCTGGTGTACTACATCAAGCGATAAGCGCATCGCTAGT 2394
Db 1042 TTTATTGGAGATAAAACAGCGAAGTCCCATACATACCATACCTTACAAAGACACAAAGGTGCG 983
QY 2395 CAAAGG 2400
Db 982 CAGACG 977

Search completed: December 9, 2005, 03:02:26
Job time : 286.556 secs
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OM nucleic - nucleic search, using sw model

Run on: December 8, 2005, 18:21:55 ; Search time 2340.24 Seconds
(without alignments)
10416.928 Million cell updates/sec

Title: US-09-165-460A-3
Perfect score: 2948
Sequence: 1 tgaactgttgatgacaaag.....ggggaggataaagaatcacca 2948

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA Main:
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
3: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq.*
4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2948	100.0	2948	7	US-10-646-950-3
2	1117	37.9	3248	7	US-10-451-467A-321
3	108.4	3.7	177	3	US-09-864-408A-91
4	62.2	2.1	341	7	US-10-021-323-451
5	61.8	2.1	528	7	US-10-021-323-8131
6	61.8	2.1	8056	8	US-10-473-126-386
7	61.6	2.1	3673778	6	US-10-312-841-2
8	61.2	2.1	3673778	6	US-10-312-841-1
9	61.2	2.1	520	7	US-10-021-323-7699
10	60.6	2.1	539	5	US-10-198-846-1369
11	60.4	2.0	664	3	US-09-814-353-4739
12	60.4	2.0	664	3	US-09-814-353-11036
13	60.2	2.0	476	3	US-09-814-353-17420
14	59.2	2.0	499	7	US-10-021-323-10189
15	59.2	2.0	396	6	US-10-021-323-17801
16	59	2.0	13249	6	US-10-311-455-89
17	58.8	2.0	309	8	US-10-357-930-45013
18	58.2	2.0	461	3	US-09-814-353-17724
19	58.2	2.0	6076	7	US-10-221-714A-386
20	58	2.0	6577	6	US-10-311-455-1329
21	58	2.0	6577	6	US-10-221-613-181
22	58	2.0	8056	8	US-10-473-126-240
23	57.8	2.0	520	7	US-10-021-323-7699

24	57.8	2.0	549	8	US-10-357-930-56681	Sequence 56681, A
25	57.8	2.0	6104	6	US-10-311-455-1339	Sequence 1339, Ap
26	57.6	2.0	319	7	US-10-021-323-7947	Sequence 7947, Ap
27	57.6	2.0	4824	8	US-10-723-860-5191	Sequence 5191, Ap
28	57.6	2.0	8588	5	US-10-239-676-178	Sequence 178, App
29	57.6	2.0	8588	6	US-10-240-453-200	Sequence 200, App
30	57.6	2.0	10716	6	US-10-311-455-1391	Sequence 1391, Ap
31	57.6	2.0	3673778	6	US-10-312-841-2	Sequence 2, Appli
32	57.2	1.9	1214	7	US-10-424-599-102083	Sequence 102083,
33	57	1.9	433	7	US-10-021-323-6681	Sequence 6681, Ap
34	57	1.9	469	7	US-10-021-323-16830	Sequence 16830, A
35	57	1.9	529	7	US-10-021-323-10810	Sequence 10810, A
36	57	1.9	537	7	US-10-021-323-8120	Sequence 8120, A
37	57	1.9	547	7	US-10-021-323-16890	Sequence 16890, A
38	57	1.9	556	8	US-10-357-930-40082	Sequence 40082, A
39	57	1.9	556	8	US-10-357-930-40182	Sequence 40182, A
40	57	1.9	556	8	US-10-357-930-42124	Sequence 42124, A
41	57	1.9	556	8	US-10-357-930-43620	Sequence 43620, A
42	56.8	1.9	375	3	US-09-960-352-15014	Sequence 15014, A
43	56.4	1.9	7892	7	US-10-257-166-138	Sequence 138, App
44	56.2	1.9	6181	7	US-10-221-613-232	Sequence 232, App
45	56.2	1.9	10286	5	US-10-239-676-14	Sequence 14, Appl

ALIGNMENTS

RESULT 1
US-10-646-950-3
; Sequence 3, Application US/10646950
; Publication No. US20040072296A1
; GENERAL INFORMATION:
; APPLICANT: Rine, Jasper
; APPLICANT: Boyartchuk, Victor L
; APPLICANT: Ashby, Matthew N
; TITLE OF INVENTION: AFCl and RCE1: Isoprenylated CAAX Processing Enzymes
; FILE REFERENCE: B96-021-3
; CURRENT APPLICATION NUMBER: US/10/646,950
; CURRENT FILING DATE: 2003-08-21
; PRIOR APPLICATION NUMBER: 60/023,491
; PRIOR FILING DATE: 1996-08-07
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 2948
; TYPE: DNA
; ORGANISM: Saccharomyces cerevisiae
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1001)..(1945)
US-10-646-950-3

Query Match	100.0%;	Score	2948;	DB	7;	Length	2948;
Best Local Similarity	100.0%;	Pred. No.	0;				
Matches	2948;	Conservative	0;	Mismatches	0;	Indels	0;
Gaps	0;						
Qy	1	TGAAGCTGTTGATGACAAAGAGAGCTGCACAGCATCAAGCTTTGTACGATGATTTCCA	60				
Db	1	TGAAGCTGTTGATGACAAAGAGAGAGCTGCACAGCATCAAGCTTTGTACGATGATTTCCA	60				
Qy	61	TTCAAAAATTTGTGAATATGAACCAAGTTTCAACAAAGAAATTTCTTGAATTAATGAGTT	120				
Db	61	TTCAAAAATTTGTGAATATGAACCAAGTTTCAACAAAGAAATTTCTTGAATTAATGAGTT	120				
Qy	121	ATATAATATGAATAGGGAGAGCCCTAGGCCAAAGAACTGAAATTTACAGATTTTATAC	180				
Db	121	ATATAATATGAATAGGGAGAGCCCTAGGCCAAAGAACTGAAATTTACAGATTTTATAC	180				
Qy	181	TTTCAGCTGTTTAAACGATATCGAAAGCAATTTGCAACTTGAAGTTAGTGTTCACACTT	240				
Db	181	TTTCAGCTGTTTAAACGATATCGAAAGCAATTTGCAACTTGAAGTTAGTGTTCACACTT	240				
Qy	241	ATCCAACATTTTTTAAAAAACAAGGTTCAGTACCTTAAAAACAACACTCAAGACCGCATTC	300				

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241 ATCCAAATTTTTTAAAAACAGGTCTAGTACCTCTTAAACAACTCAAGCAGCATATC 300 Db
|||||
301 TGAGGATTCATATCGCACACAGGTAAAGTTCATCGTCCCGAGTTCAGCGTCATT 360 QY
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301 TGAGGATTCATATCGCACACAGGTAAAGTTCATCGTCCCGAGTTCAGCGTCATT 360 Db
|||||
361 AAGCCAGTAACTTCTTCATCCNAGAGTAGTTTATTTTACCTAGCGGTAGCTCGTCTAC 420 QY
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361 AAGCCAGTAACTTCTTCATCCNAGAGTAGTTTATTTTACCTAGCGGTAGCTCGTCTAC 420 Db
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421 TTCCCTGAAATTTACAGACAGATTCCTCATAAATGGGTAGGATTCCTCTTACAGTA 480 QY
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421 TTCCCTGAAATTTACAGACAGATTCCTCATAAATGGGTAGGATTCCTCTTACAGTA 480 Db
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481 CAAACGAGACATTAATGTGAACCTTGAAATTTAATAAGGACATTAAGGAAATTTAATCC 540 QY
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481 CAAACGAGACATTAATGTGAACCTTGAAATTTAATAAGGACATTAAGGAAATTTAATCC 540 Db
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541 AAGTTTTGAAGCTGCTATGTTGTAGGTTTATTCGGTTCGAGTAATGATTAATTTGA 600 QY
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721 GCTTATAGATGAAGTATTTATCGCGTCTTTGATTTCCCTATTTAATAAAATTCCTT 780 QY
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781 TAAAAATGATTTCTGGTGCTCTTTTGTGCTCTGATTTTCTTTTGGACCACTG 840 QY
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841 GATGGAAAACTTTGATGATTTTATTTACCTTTATTTTAAAGTTACTAAAAATATCGAGATT 900 QY
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901 CAGGACAAACATAGAAATTTCTTTGTGCAAGAAATAAAAAGAAATTAATGATGCTT 960 QY
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901 CAGGACAAACATAGAAATTTCTTTGTGCAAGAAATAAAAAGAAATTAATGATGCTT 960 Db
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961 TGACTACTGACTGCTCTCATAGAGAACAGAACAGCAATGCTACAATTTCTCAACATT 1020 Db
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1021 TCTAGTCTCTATPACATCTCCATATCCTATGTGCTACCGCTATATGCAACCTTCAAC 1080 QY
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1021 TCTAGTCTCTATPACATCTCCATATCCTATGTGCTACCGCTATATGCAACCTTCAAC 1080 Db
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1081 AGAAGGCTCTAAACGAGATTAATCTCGAAGATTTAAATCTCGCATGCAAAAACTTCAAT 1140 QY
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1081 AGAAGGCTCTAAACGAGATTAATCTCGAAGATTTAAATCTCGCATGCAAAAACTTCAAT 1140 Db
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1141 TATGCTAAATTTCCAACTTTTGTGCTCTTTTATCAATCTCAATTTCTAGTACCAC 1200 QY
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1201 TTCCATATAGTTTCAAGGACGATTTTATAGGCTATAGGATTTATCCAGGTTATACGC 1260 QY
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1201 TTCCATATAGTTTCAAGGACGATTTTATAGGCTATAGGATTTATCCAGGTTATACGC 1260 Db
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1261 TGCAATGCCAAACCTTTGGCAATTCAGCGAGTTCGTAAGAGACTTAACGAAATGTGTGC 1320 QY
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1261 TGCAATGCCAAACCTTTGGCAATTCAGCGAGTTCGTAAGAGACTTAACGAAATGTGTGC 1320 Db
|||||
1321 GATGTTATGACCTTATATGTGACCCGTTTATGATTTTGTATTTATATCATTTTATTA 1380 QY
|||||
1321 GATGTTATGACCTTATATGTGACCCGTTTATGATTTTGTATTTATATCATTTTATTA 1380 Db

|||||
1321 GATGTTATGACCTTATATGTGACCCGTTTATGATTTTGTATTTATATCATTTTATTA 1380 Db
|||||
1381 TCCAAAGAGCTCTATATCTTGAAGATTTTACATGAATTTCTGATATTTTGGAGTTTTCAG 1440 QY
|||||
1381 TCCAAAGAGCTCTATATCTTGAAGATTTTACATGAATTTCTGATATTTTGGAGTTTTCAG 1440 Db
|||||
1441 GAAATTTATATTTGACCAATAAATCTGAGGAAATATTTTACAGCTCAATGCTTTTGACTAC 1500 QY
|||||
1441 GAAATTTATATTTGACCAATAAATCTGAGGAAATATTTTACAGCTCAATGCTTTTGACTAC 1500 Db
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1501 GTACTTAAACCTTAATACCGCATTTGCAACTAAGCTATCAACAGTTTATTTTGGCAACCATC 1560 QY
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1501 GTACTTAAACCTTAATACCGCATTTGCAACTAAGCTATCAACAGTTTATTTTGGCAACCATC 1560 Db
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1561 GCTTTTTTTTGGACTTGGCAGCAGCATGCTTATGAGCAATTTACAGGAGGCTCCAT 1620 QY
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1621 GACAACTGTTTTCCATTTCTGCTGACAAATGCTTCCAAATTTTATACACAACTTTTGG 1680 Db
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1681 AGGGTTAAACCAAGTTTGTATTCGTAAGAACAGCGGGAACTTATGCTGCTGCATATCT 1740 QY
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1681 AGGGTTAAACCAAGTTTGTATTCGTAAGAACAGCGGGAACTTATGCTGCTGCATATCT 1740 Db
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1741 GCATGCCCTTTGCAATATCATGGGTTTTCTGGTCTTCCAGATTTGAATTTACATTTCCAC 1800 QY
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1741 GCATGCCCTTTGCAATATCATGGGTTTTCTGGTCTTCCAGATTTGAATTTACATTTCCAC 1800 Db
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1801 AGTAGTAGACAAAGAGCTGGACGATTTCCAAATTTGGTCTCAATCTGGAATAAGTGCTA 1860 QY
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1801 AGTAGTAGACAAAGAGCTGGACGATTTCCAAATTTGGTCTCAATCTGGAATAAGTGCTA 1860 Db
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1861 CTTTCACCTGCTGGTCTTGGATTAATATCCCTGAAGGATACCTTACAACTCTGGTAGG 1920 QY
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1861 CTTTCACCTGCTGGTCTTGGATTAATATCCCTGAAGGATACCTTACAACTCTGGTAGG 1920 Db
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1921 AACTCCTGGTTATAGAAATACCTTTTACCTTTTATAGCTTTTATAGCTCTGATACCGTTAA 1980 QY
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1921 AACTCCTGGTTATAGAAATACCTTTTACCTTTTATAGCTTTTATAGCTCTGATACCGTTAA 1980 Db
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1981 TTTCTATGATCTATTAACCTTTTTCATCTATTTATGAAATTTCTATCGAGCACCGGCT 2040 Db
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2041 TTTGTTACGGAAGAGTGAAAAATCGAGTTTTTGGTGGTGGTGAAGAAATTTGGAGGAC 2100 QY
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2041 TTTGTTACGGAAGAGTGAAAAATCGAGTTTTTGGTGGTGGTGAAGAAATTTGGAGGAC 2100 Db
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2101 TATAAGTACCTTATCTTTGATTTACGGACTCAATAACAAAGCTTTCGTTGTCAGTGGTAT 2160 QY
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2101 TATAAGTACCTTATCTTTGATTTACGGACTCAATAACAAAGCTTTCGTTGTCAGTGGTAT 2160 Db
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2161 TGAAGTTGTGATCTTAAGAGTAGAGAGAGTGGCATCTAATAGGTTTTCGACGTTTTTC 2220 Db
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2221 TTTTTTAAAGGTTTTTATTTGGTCTCCTAAGAAATTTAAGGCTTTAGTTAGTTTGGTTGT 2280 QY
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2221 TTTTTTAAAGGTTTTTATTTGGTCTCCTAAGAAATTTAAGGCTTTAGTTAGTTTGGTTGT 2280 Db
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2281 TTTTGGGTTATCATATTTTCAATTCAAAGGAGAAATTTAGCTGCTTTTATATGTCCTCAAT 2340 QY
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2281 TTTTGGGTTATCATATTTTCAATTCAAAGGAGAAATTTAGCTGCTTTTATATGTCCTCAAT 2340 Db
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2341 AGAGATAACGAGAGCATGCTGCTACTACATCAAGCGATAAGCGGATCGCTAGTCAAAGG 2400 QY
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2341 AGAGATAACGAGAGCATGCTGCTACTACATCAAGCGATAAGCGGATCGCTAGTCAAAGG 2400 Db
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2401 GATAAACGGAAGTCTGAAGTTTTGATGCTGCACAGTCCCTTGACAAATGAATCCGAGC 2460 QY
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2401 GATAAACGGAAGTCTGAAGTTTTGATGCTGCACAGTCCCTTGACAAATGAATCCGAGC 2460 Db

QY 2461 GTAAAAACCTAAAAAGATTGTCGATTTGGGTCAATGGATTACTTATTGATCCAGAAATTA 2520
 DB 2461 GTAAAAACCTAAAAAGATTGTCGATTTGGGTCAATGGATTACTTATTGATCCAGAAATTA 2520
 QY 2521 GATATAAAATTCGGTGGGGAATCTAGTGGGAGACGATCATGGTCTGGGACGACATCCAGT 2580
 DB 2521 GATATAAAATTCGGTGGGGAATCTAGTGGGAGACGATCATGGTCTGGGACGACATCCAGT 2580
 QY 2581 TCTCGTCAATGCCAAGTGAACAACACCGTTTAAATAACACACGATATAGCGATCCAACT 2640
 DB 2581 TCTCGTCAATGCCAAGTGAACAACACCGTTTAAATAACACACGATATAGCGATCCAACT 2640
 QY 2641 CCGCTAGAGAACTTGCATGGGAGGGGTAACTCAGGGATAGAAATCTCCATTAAGACTAAA 2700
 DB 2641 CCGCTAGAGAACTTGCATGGGAGGGGTAACTCAGGGATAGAAATCTCCATTAAGACTAAA 2700
 QY 2701 CAAGTAACTACTTACTAGGTATAAAAAGGTGTTCACCTCTCCATCCAGGAAATTTAAATGCT 2760
 DB 2701 CAAGTAACTACTTACTAGGTATAAAAAGGTGTTCACCTCTCCATCCAGGAAATTTAAATGCT 2760
 QY 2761 AACGTATTAAAGAAAACTTATTATGAGTTCGGGTCGCGCAATCAACCCCTAAAGGCT 2820
 DB 2761 AACGTATTAAAGAAAACTTATTATGAGTTCGGGTCGCGCAATCAACCCCTAAAGGCT 2820
 QY 2821 GATATTTCTTAGAGCTTGTAAGATACTTTTACAAAATATACAACTAAGCGCAATGGT 2880
 DB 2821 GATATTTCTTAGAGCTTGTAAGATACTTTTACAAAATATACAACTAAGCGCAATGGT 2880
 QY 2881 GAAGATAATGATGGGAATAGCAATGAAATTAACGATATTGAGGATAATGGGAGGATAAA 2940
 DB 2881 GAAGATAATGATGGGAATAGCAATGAAATTAACGATATTGAGGATAATGGGAGGATAAA 2940
 QY 2941 GAATCACA 2948
 DB 2941 GAATCACA 2948

RESULT 2
 US-10-451-467A-321
 ; Sequence 321, Application US/10451467A
 ; Publication No. US20040161840A1
 ; GENERAL INFORMATION:
 ; APPLICANT: CONTRERAS, ROLAND HENRI
 ; APPLICANT: EBERHARDT, INES
 ; APPLICANT: LUYTEN, WALTER HERMAN MARIA LOUIS
 ; APPLICANT: REEKMAN, RIEKA JOSEPHINA
 ; TITLE OF INVENTION: BAX-RESPONSIVE GENES FOR DRUG TARGET IDENTIFICATION IN
 ; TITLE OF INVENTION: YEAST AND FUNGI
 ; FILE REFERENCE: JAB-1667
 ; CURRENT APPLICATION NUMBER: US/10/451,467A
 ; CURRENT FILING DATE: 2003-06-19
 ; PRIOR APPLICATION NUMBER: EP 00870318.3
 ; PRIOR FILING DATE: 2000-12-22
 ; PRIOR APPLICATION NUMBER: EP 01870002.1
 ; PRIOR FILING DATE: 2001-01-04
 ; PRIOR APPLICATION NUMBER: EP 01870003.9
 ; PRIOR FILING DATE: 2001-01-09
 ; NUMBER OF SEQ ID NOS: 732
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 321
 ; LENGTH: 3248
 ; TYPE: DNA
 ; ORGANISM: Saccharomyces cerevisiae
 US-10-451-467A-321

Query Match 37.9%; Score 1117; DB 7; Length 3248;
 Best Local Similarity 100.0%; Pred. No. 2.3e-234;
 Matches 1117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1832 AAATTTGGTCTCAATCTGGAATAGTGTACTTCGACACTGCTGGTCTCTGGATTAATATCC 1891
 DB 1 AAATTTGGTCTCAATCTGGAATAGTGTACTTCGACACTGCTGGTCTCTGGATTAATATCC 60

QY 1892 CTGAAGGATACCTTTACAAAACCTCTGGTAGGAACCTCTGGTTATAGAAATAACCCCTTTAGCCT 1951
 DB 61 CTGAAGGATACCTTTACAAAACCTCTGGTAGGAACCTCTGGTTATAGAAATAACCCCTTTAGCCT 120
 QY 1952 TTTTACGTAATCTGTATACCGTTTAAATTTCCATGTACTATATAACCTTTTTCACACT 2011
 DB 121 TTTTACGTAATCTGTATACCGTTTAAATTTCCATGTACTATATAACCTTTTTCACACT 180
 QY 2012 ATATGGAATCTATACGAGACCGGCTTTTGTACGGAGAGTGAAGAAATCGAGTTT 2071
 DB 181 ATATGGAATCTATACGAGACCGGCTTTTGTACGGAGAGTGAAGAAATCGAGTTT 240
 QY 2072 TGGTGTTTTGGTGAAGAAATTTGGAGGACTATAAAGTACCTATATCTTTTGTATTACGGACT 2131
 DB 241 TGGTGTTTTGGTGAAGAAATTTGGAGGACTATAAAGTACCTATATCTTTTGTATTACGGACT 300
 QY 2132 CAATPAAACAAGTCGTTCTGTGTCAGTGGTATTGAAGTGTCTAGATCTAAGAGTAGAGAGAG 2191
 DB 301 CAATPAAACAAGTCGTTCTGTGTCAGTGGTATTGAAGTGTCTAGATCTAAGAGTAGAGAGAG 360
 QY 2192 GTGGCATCTAATAGGTTTCGACGTTTCTTTTAAAGGTTTATTTTGGTCTCTCTAGA 2251
 DB 361 GTGGCATCTAATAGGTTTCGACGTTTCTTTTAAAGGTTTATTTTGGTCTCTCTAGA 420
 QY 2252 ATTTAAGGCTCTAGTATTAGTTTGGTGTGTTGTTGGGTTACATATTTTCAATTTCAAAAGGA 2311
 DB 421 ATTTAAGGCTCTAGTATTAGTTTGGTGTGTTGTTGGGTTACATATTTTCAATTTCAAAAGGA 480
 QY 2312 GAATTTAGCTGTCTTTTATATGTTCAATAGAGATAACGAGAGCATGTCGTTAGTACAT 2371
 DB 481 GAATTTAGCTGTCTTTTATATGTTCAATAGAGATAACGAGAGCATGTCGTTAGTACAT 540
 QY 2372 CAAGCGATAGGCGATCGCTAGTCAAAAGGNTAAACGAGAGTCTGAAAGTTTGGTGTG 2431
 DB 541 CAAGCGATAGGCGATCGCTAGTCAAAAGGNTAAACGAGAGTCTGAAAGTTTGGTGTG 600
 QY 2432 CACAGTCCCTTGACAATGAAATCCGACGCTGAAAGGNTAAACGAGAGTCTGAAAGTTTGGTGTG 2491
 DB 601 CACAGTCCCTTGACAATGAAATCCGACGCTGAAAGGNTAAACGAGAGTCTGAAAGTTTGGTGTG 660
 QY 2492 CAATGGATTTACTTATTGATCCAGAAATAGAGATAAATTCGTTGGGGAATCTAGTGGGA 2551
 DB 661 CAATGGATTTACTTATTGATCCAGAAATAGAGATAAATTCGTTGGGGAATCTAGTGGGA 720
 QY 2552 GACGATCATGTCCTGGCACGACATCCAGTCTGCGTCAATGCCAAGTGACACCAACCCG 2611
 DB 721 GACGATCATGTCCTGGCACGACATCCAGTCTGCGTCAATGCCAAGTGACACCAACCCG 780
 QY 2612 TTAATAACACACGATATAGCGATCCAACTCCGCTAGAGAACTTGCATGGGAGGGTAACT 2671
 DB 781 TTAATAACACACGATATAGCGATCCAACTCCGCTAGAGAACTTGCATGGGAGGGTAACT 840
 QY 2672 CAGGATAGAAATCTCTCAATAAGACTAAACAAGTAACTACTTAGGTATATAAAGGTTG 2731
 DB 841 CAGGATAGAAATCTCTCAATAAGACTAAACAAGTAACTACTTAGGTATATAAAGGTTG 900
 QY 2732 TTCACTCTCCATCCAGGAAATTTAAATGCTAATGCTAATGCTAATGCTAATGCTAATGCTAATGCT 2791
 DB 901 TTCACTCTCCATCCAGGAAATTTAAATGCTAATGCTAATGCTAATGCTAATGCTAATGCT 960
 QY 2792 CCGCAATCAACACCCCTAAACGCTTAAGCTGATAATTTCTAGAGCTTGTCAAGACTCTT 2851
 DB 961 CCGCAATCAACACCCCTAAACGCTTAAGCTGATAATTTCTAGAGCTTGTCAAGACTCTT 1020
 QY 2852 TACAAAATATACAACTAAGCGCAATGGTGAAGATAATGATGGGAATAGCAATGAAATA 2911
 DB 1021 TACAAAATATACAACTAAGCGCAATGGTGAAGATAATGATGGGAATAGCAATGAAATA 1080
 QY 2912 ACGATATTGAGGATAATGGGAGGATTAAGAAATCACA 2948
 DB 1081 ACGATATTGAGGATAATGGGAGGATTAAGAAATCACA 1117

RESULT 3

US-09-864-408A-91
; Sequence 91, Application US/09864408A
; Publication No. US20040009474A1
; GENERAL INFORMATION:
; APPLICANT: Leach, Martin D.
; APPLICANT: Shimkets, Richard A.
; TITLE OF INVENTION: No. US20040009474A1 Human Polynucleotides and Polypeptides Encoded by the Sequence 91
; FILE REFERENCE: 21402-012
; CURRENT APPLICATION NUMBER: US/09/864,408A
; PRIOR FILING DATE: 2001-05-24
; PRIOR FILING DATE: 2006-06-09
; PRIOR FILING DATE: 2000-05-24
; NUMBER OF SEQ ID NOS: 9068
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 91
; LENGTH: 177
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-864-408A-91

Query Match 3.7%; Score 108.4; DB 3; Length 177;
Best Local Similarity 99.1%; Pred. No. 1.5e-13;
Matches 109; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2839 GTACAAGATCTTTACAAAATATACAACTAAGCGACAATGGTGAAGATATGATGGGAAT 2898
DB 1 GTACAAGATCTTTACAAAATATACAACTAAGCGACAATGGTGAAGATATGATGGGAAT 60
QY 2899 AGCAATGAAATAACGATATTGAGGATATGGGAGGATAAAGAAATCACA 2948
DB 61 AGCAATGAAATAACGATATTGAGGATATGGGAGGATAAAGAAATCACA 110

RESULT 4

US-10-021-323-451/c
; Sequence 451, Application US/10021323
; Publication No. US20040123340A1
; GENERAL INFORMATION:
; APPLICANT: Deikman, Jill
; APPLICANT: Feng, Paul C.C.
; APPLICANT: Fincher, Karen L.
; APPLICANT: Ziegler, Todd E.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With the Sequence 451
; FILE REFERENCE: 38-21(52274)B
; CURRENT APPLICATION NUMBER: US/10/021,323
; CURRENT FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 60/255, 619
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 17880
; SEQ ID NO 451
; LENGTH: 341
; TYPE: DNA
; ORGANISM: Gossypium hirsutum
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3825-007-Q1-K6-C8
US-10-021-323-451

Query Match 2.1%; Score 62.2; DB 7; Length 341;
Best Local Similarity 51.2%; Pred. No. 0.0029;
Matches 145; Conservative 0; Mismatches 138; Indels 0; Gaps 0;
QY 679 TTCTCGTTACTTTCTTATAGATATAGATATGATGGTTTCTTATAGATGAAGGTAT 738
DB 284 TTTTGTGTTT 225
QY 739 TTATCGGTCCTTTGTATTCCTATATTAATAAATCTTTTAAATGCAATTTCTGGT 798
DB 224 TTTTGTGTTT 165
QY 799 GCTCTTTGTGCTTCTGTTATTTTTTTTTTTTGGACCACTGGATGGAACCTTTTGATG 858

DB 164 TTTTGTGTTT 105
QY 859 ATTTTATTACCTTTTATTTAAGTTTACTAAATATCGAGATTTTCAGGAACAAACATAGAA 918
DB 104 TTTTGTGTTT 45
QY 919 TTTTCTTTGTCAAGAAAATAAAACGAATAAAATTTGATGCTTT 961
DB 44 AATAATATTT 2

RESULT 5

US-10-021-323-8131
; Sequence 8131, Application US/10021323
; Publication No. US20040123340A1
; GENERAL INFORMATION:
; APPLICANT: Deikman, Jill
; APPLICANT: Feng, Paul C.C.
; APPLICANT: Fincher, Karen L.
; APPLICANT: Ziegler, Todd E.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With the Sequence 8131
; FILE REFERENCE: 38-21(52274)B
; CURRENT APPLICATION NUMBER: US/10/021,323
; CURRENT FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 60/255, 619
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 17880
; SEQ ID NO 8131
; LENGTH: 528
; TYPE: DNA
; ORGANISM: Gossypium hirsutum
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3828-006-Q1-N6-F8
US-10-021-323-8131

Query Match 2.1%; Score 61.8; DB 7; Length 528;
Best Local Similarity 51.6%; Pred. No. 0.0043;
Matches 141; Conservative 0; Mismatches 132; Indels 0; Gaps 0;
QY 679 TTCTCGTTACTTTCTTATAGATATAGATATGATGGTTTCTTATAGATGAAGGTAT 738
DB 3 TTTTGTGTTT 62
QY 739 TTATCGGTCCTTTGTATTCCTATATTAATAAATCTTTTAAATGCAATTTCTGGT 798
DB 63 TTTTGTGTTT 122
QY 799 GCTCTTTGTGCTTCTGTTATTTTTTTTTTTTGGACCACTGGATGGAACCTTTTGATG 858
DB 123 TTTTGTGTTT 182
QY 859 ATTTTATTACCTTTTATTTAAGTTTACTAAATATCGAGATTTTCAGGAACAAACATAGAA 918
DB 183 GGGTTTTTTTTTTTTTTTAAATAAAAAAAAAAAAAAAAAATTTTTTAAAAAAAAAAAAAAG 242
QY 919 TTTTCTTTGTCAAGAAAATAAAACGAATAAA 951
DB 243 GGTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA 275

RESULT 6

US-10-473-126-386/c
; Sequence 386, Application US/10473126
; Publication No. US20040234973A1
; GENERAL INFORMATION:
; APPLICANT: Epigenomics AG
; TITLE OF INVENTION: Methods and nucleic acids for the analysis of hematopoietic cell differentiation
; FILE REFERENCE: US/10/473,126
; CURRENT FILING DATE: 2003-09-26

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; NUMBER OF SEQ ID NOS: 1258
; SEQ ID NO 386
; LENGTH: 8056
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-473-126-386

Query Match      2.1%; Score 61.8; DB 8; Length 8056;
Best Local Similarity 48.0%; Pred. No. 0.016;
Matches 177; Conservative 0; Mismatches 192; Indels 0; Gaps 0;

Qy 585 TAATGATTAATTTGAAACCATCTTGGCGTAGCGAAGATTGATATCCCTATTCTGTGA 644
Db 2807 TAATAAACAAATTCATTTAAATTTATTAAATAAACAATTAATAATTTTATTATTT 2748

Qy 645 GCGAAGTCACAAATAAAAAACATTTAGAAAAATCTCGTTACTTTTCTTATAGATATA 704
Db 2747 TATTAAATTTTATTAAACAATTTATTTTAAAAAAAATAATAATAATTTAAAAA 2688

Qy 705 GATATATGATGTTTGGCTTATAGATGAAGGATTTATTCGGCTCTTTTGTATTCCTATT 764
Db 2687 AATTTAAAAATTTATTATTTTAAAAATTTTAAATTTTAAACATTTTATTTTATTTT 2628

Qy 765 ATTAATAAAATCTTTTAAATGCAATTTTCTGGCTCTTTTGTGCTTCTGTATTTT 824
Db 2627 TTTAAATTTATTATATTTTATAATTTTATTTTTCATTTATTTTATTTTAAAAATTT 2568

Qy 825 TTTTTTGGACCTGGATGGAACCTTTGATGATTTTATTACCTTTTATTATTTAAAGTTAC 884
Db 2567 ATTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTATTTTATTTTC 2508

Qy 885 TAAATATCGAATTTTCAGAACAAAAACATAGAATTTTCTTTGTCAAGAAAAATAAAACG 944
Db 2507 ATTAATATTTTAAATTTTAAACAAAAATAATAAAAAATATATAATAAAAAATAAAAA 2448

Qy 945 AAATAAATTT 953
Db 2447 AAATTAATTT 2439

RESULT 7
US-10-312-841-2/c
; Sequence 2, Application US/10312841
; Publication No. US20030186277A1
; GENERAL INFORMATION:
; APPLICANT: Epigenomics AG
; TITLE OF INVENTION: Diagnose von bedeutenden genetischen Parametern innerhalb des MHC
; FILE REFERENCE: E01/1208/WO
; CURRENT APPLICATION NUMBER: US/10/312,841
; CURRENT FILING DATE: 2002-12-30
; NUMBER OF SEQ ID NOS: 2
; SEQ ID NO 2
; LENGTH: 3673778
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; NAME/KEY: unsure
; LOCATION: (379615)
US-10-312-841-2

Query Match      2.1%; Score 61.6; DB 6; Length 3673778;
Best Local Similarity 49.5%; Pred. No. 0.34;
Matches 186; Conservative 0; Mismatches 189; Indels 1; Gaps 1;

Qy 660 AAAAAAACATAGAAAAAATCTCGTTACTTTTCTTATAGATATAGATATATGTTATGTTT 719
Db 3242816 AATAAAATTTCTTACTAAACTCATATATTTTACCATACATTTTAAAAAATTTTCTAACATT 3242757

Qy 720 TCGTTATAGATGAAGGATTTATTCGGCTCTTTGTATTTCCCTATTATT-AATAAAATTTCT 778

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Db 3242756 TTCTAAATCATATTATATAAATAATATTATTTTAAATCATATTTTAAACAAATTTCT 3242697
Qy 779 TTTAAATGCAATTTTCTGGTGCTCTTTTGTGCTCTCTGTAATTTTATTTTGGACAC 838
Db 3242696 ATAAAAACATACATTTTAAAAACTATTAAATTTTCTTTTTTTTTTTTTTCAATATC 3242637
Qy 839 TGGATGGAACCACTTTTCATGATTTTATTACCTTTTATTTTAAAGTTACTAAAAATATCGAGAT 898
Db 3242636 AAAAAATAAATATCTTTTATCTATTTAACCATTTTCTTTTATACATTATATAACAATTA 3242577
Qy 899 TTCAAGAACAAAAACATAGAATTTTCTTTGTCAAGAAAAATAAAACGAAATAAATTTGATGC 958
Db 3242576 TTTAAAAACAAATTTTAAATACCTTTTTTATCAAAATTTTAAAAATTTAATAATAATTAACC 3242517
Qy 959 TTTGACTACTGACTGTCTGTCTATAGAGAACGACGACGAAATGCTACATTTCTCAACA 1018
Db 3242516 TAAATAACAAATTTTAAAAATATTTCATTTAAACAAAACAAACTCTTCGACTATTTTCTAAA 3242457
Qy 1019 TTTCTAGTGTCTCTAT 1034
Db 3242456 TTTCAACTTATCTTTT 3242441

RESULT 8
US-10-312-841-1
; Sequence 1, Application US/10312841
; Publication No. US20030186277A1
; GENERAL INFORMATION:
; APPLICANT: Epigenomics AG
; TITLE OF INVENTION: Diagnose von bedeutenden genetischen Parametern innerhalb des MHC
; FILE REFERENCE: E01/1208/WO
; CURRENT APPLICATION NUMBER: US/10/312,841
; CURRENT FILING DATE: 2002-12-30
; NUMBER OF SEQ ID NOS: 2
; SEQ ID NO 1
; LENGTH: 3673778
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
; NAME/KEY: unsure
; LOCATION: (3294164)
US-10-312-841-1

Query Match      2.1%; Score 61.2; DB 6; Length 3673778;
Best Local Similarity 50.3%; Pred. No. 0.42;
Matches 150; Conservative 0; Mismatches 148; Indels 0; Gaps 0;

Qy 669 TTAGAAAAAATTTCTCGTTACTTTTCTTATAGATATAGATATATGTTTGTCTTATAG 728
Db 167656 TTTTAAATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT 167715

Qy 729 ATGAAGGTATTATTCGGCTCTTTGTATTCCTATTATTAATAAAATTTCTTTAAAAATGC 788
Db 167716 TTTTGTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT 167775

Qy 789 ATTTTCTGGTCTCTTTTGTGCTCTCTGTAATTTTATTTTATTTTATTTTATTTTATTTT 848
Db 167776 TTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT 167835

Qy 849 ACCTTTGATGATTTTATACCTTTTATTTTAAAGTTACTAAAAATATCGAGATTTTCAGAAC 908
Db 167836 ATATAAAATAATTTTATGATGCGTTGTAAGTAAGTATTTTATTTTATTTATTTATTT 167895

Qy 909 AAACATAGAATTTTCTTTGTCAAGAAAAATAAAACGAAATAAATTTGATGCTTTGACTA 966
Db 167896 AAGTATATGTTTATTTATATGAGAAATAAGTAATAATATAGGAAGTTATTAATAAGATA 167953

RESULT 9
US-10-021-323-7699/c

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; Sequence 7699, Application US/10021323
; Publication No. US20040123340A1
; GENERAL INFORMATION:
; APPLICANT: Deikman, Jill
; APPLICANT: Feng, Paul C.C.
; APPLICANT: Fincher, Karen L.
; APPLICANT: Ziegler, Todd E.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(52274)B
; CURRENT APPLICATION NUMBER: US/10/021,323
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 60/255, 619
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 17880
; SEQ ID NO 7699
; LENGTH: 520
; TYPE: DNA
; ORGANISM: Gossypium hirsutum
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3828-019-Q1-N6-D6
; US-10-021-323-7699

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Query Match      2.1%; Score 61; DB 7; Length 520;
Best Local Similarity 50.5%; Pred. No. 0.0064;
Matches 148; Conservative 0; Mismatches 145; Indels 0; Gaps 0;

QY 659 TAAAAAACATAGAAAAATCTCGTACTTTCTTATAGATATAGATATAGATATAGTGT 718
Db 393 TCAAAAAAAATATATATTTTTTTTTTTTTTTTTTTTTTAAATAATATTTTTTTTTTT 334
QY 719 TTGCTTATAGATGAAGTATTTATCGGCTTTGTTATCCCTATTTATTAATAAATCT 778
Db 333 TTTTAAAAATATATATTTTAAATATTTTATTTTATCTCTTTTTTTTTTTTTTTTT 274
QY 779 TTTAAAAATGCTTTCTGGTGCTTTTGTGCTCTGTTATTTTTTTTTTTTGGACCAC 838
Db 273 TTTAAAAATACCTTTTTTTTTTTTTTTTTTTTTTTTAAATTTTAAATTTTACCTTTT 214
QY 839 TGGATGGAACCTTTGATGATTTTATACCTTTATTTTAAAGTTACTAAATATCGAGAT 998
Db 213 TTTTAAAAATTTTATTTTTTTTTTTTTTTTAAATAAAAAAATAAAAAAATAAAT 154
QY 899 TTCAAGAACAAACATAGATTTCTTTGTCAGAAAAATATAACGAAATATA 951
Db 153 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 101

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RESULT 10
US-10-198-846-1369/c
; Sequence 1369, Application US/10198846
; Publication No. US20030099974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steimann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1369
; LENGTH: 539
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature

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; LOCATION: 2, 3, 4, 8, 14, 25, 113, 117, 118, 121, 123, 125, 127, 129,
; LOCATION: 130, 134, 135, 142, 145, 152, 155, 156, 164, 167, 169, 189,
; LOCATION: 190, 201, 202, 211, 238, 239, 270, 271, 292, 295, 302, 303,
; LOCATION: 306, 314, 315, 339, 346, 349, 359, 374, 388, 395
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc_feature
; LOCATION: 396, 410, 414, 430, 432, 435, 439, 440, 442, 443, 447, 448,
; LOCATION: 453, 473, 476, 480, 482, 486, 487, 493, 495, 501, 510,
; LOCATION: 530
; OTHER INFORMATION: n = A,T,C or G
; US-10-198-846-1369

Query Match      2.1%; Score 60.6; DB 5; Length 539;
Best Local Similarity 45.6%; Pred. No. 0.008;
Matches 152; Conservative 0; Mismatches 180; Indels 1; Gaps 1;

QY 619 GAAAGATTGATATCCCTATTTCTGTTAGGCAAGTCACAAAAATAAAAAACATTTAGAAAAA 678
Db 426 GGATTTTTTTTATNCNTNTTTTTTGGAAAAAGNNTTTTTCGNTTTTTTAATTTTNAATAA 367
QY 679 TTCTCGTTACTTTCTTATAGATATAGATATATATGATGTTGCTTATAGATGAAGTAT 738
Db 366 TTTTAAANATTTTAAACNCANCTTTTNNAAATTTGT-TTTTTTTTTTTTATTTANNTTTT 308
QY 739 TTATCGCGCTTTGTTATCCCTATTTATTAATAAATCTTTTAAATGTCATTTTCTGCT 798
Db 307 TNAATNATTTTCAATNTTTTTTTTTTTTTTTTTTTTANNTTTTTTTTATTTATTTT 248
QY 799 GCTCTTTTGTCTCTCTGTTATTTTTTTTTTTTTTTTGGACCACCTGGATGGAACCTTTGATG 858
Db 247 TTTTNTNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNAATTTTTTNT 188
QY 859 ATTTTATACCTTTTAAAGTTACTAAATATCGAGATTCAGAGAACAAACATAGAA 918
Db 187 TTTTNTTTTTTTTTTTTTTTTNNNTTTTTTTTTTTTCTTATNATTTTAAANNAANA 128
QY 919 TTTTCTTTGTCAGAAAAATAAAGCAATAAA 951
Db 127 NTNANTNANNAANAAAAAATAAAAAAATAAAAAA 95

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RESULT 11
US-09-814-353-4739
; Sequence 4739, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT APPLICATION NUMBER: US/09/814,353
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: US 60/191,031
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: US 60/207,124
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: US 60/211,940
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: US 60/216,820
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4739
; LENGTH: 664
; TYPE: DNA

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; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/220,661
; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17420
; LENGTH: 476
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-814-353-17420

Query Match                2.0%; Score 60.2; DB 3; Length 476;
Best Local Similarity 52.1%; Pred. No. 0.0092;
Matches 134; Conservative 0; Mismatches 123; Indels 0; Gaps 0;

QY      711 TGTATGGTTTGGCTATATAGATGAAGGTATTTATCGCGTCCTTGTATTCCTATATTATTAAT 770
DB      86 TTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT 145

QY      771 AAAATTCCTTTAAATGCAATTTCTCGGTGCTCTTTGTCGCTTCTGTATTTTATTTTATTTT 830
DB      146 TTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT 205

QY      831 TCGACCACCTGGATGGAACACCTTTTGATGATTTTATTACCTTTATTTTAAGTTACTAAAT 890
DB      206 GGGGGGGGGGCCAAAAAATAAAAAAATAATTTATTTTATTTTATTTTATTTTAAAAAATAAA 265

QY      891 ATCGAGATTTTCAGGAACAAAAATAGATAATTTCTTCTCAAGAAAAATAAAACGAAATAA 950
DB      266 AAAAGTTTTTGAAGAAGAAAAACAAAAATATTTTTTTTTTAAAAAATAATAAAAAAGAGAG 325

QY      951 ATTGATGCTTTGACTAC 967
DB      326 TTTTATTTTATTTTCTCTCC 342

RESULT 14
US-10-021-323-10189/c
; Sequence 10189, Application US/10021323
; Publication No. US20040123340A1
; GENERAL INFORMATION:
; APPLICANT: Deikman, Jill
; APPLICANT: Feng, Paul C.C.
; APPLICANT: Fincher, Karen L.
; APPLICANT: Ziegler, Todd E.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(52274)B
; CURRENT APPLICATION NUMBER: US/10/021.323
; CURRENT FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 60/255, 619
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 17880
; SEQ ID NO 10189
; LENGTH: 499
; TYPE: DNA
; ORGANISM: Gossypium hirsutum
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3828-023-Q6-N6-C10
US-10-021-323-10189

Query Match                2.0%; Score 59.4; DB 7; Length 499;
Best Local Similarity 48.9%; Pred. No. 0.014;
Matches 159; Conservative 0; Mismatches 166; Indels 0; Gaps 0;

QY      627 ATATCCCTATTTCTGTAGCAAGTGACAAAATAAAAACATTAGAAAAAATTCCTGTT 686
DB      417 ATATAAAAAATTTTTTTTTTTTTTTTTTTTAAAAAATAAAAAATGGCCCCCCTTTTT 358

QY      687 ACTTTTCTTATAGATATATGATGGTTTGCTTTATAGATGAAGGTATTTATTCGCG 746

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Db 303 AA 304

Search completed: December 9, 2005, 02:55:09
Job time : 2359.24 secs

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OM nucleic - nucleic search, using sw model

Run on: December 8, 2005, 16:30:04 ; Search time 511.407 Seconds
(without alignments)
10246.741 Million cell updates/sec

Title: US-09-165-460A-3
Perfect score: 2948
Sequence: 1 tgaactgtgatgacaaag.....ggggaggataaagaatcacca 2948

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:*

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- 2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/H COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/pCTUS COMB.seq.*
- 7: /cgn2_6/ptodata/1/ina/pp COMB.seq.*
- 8: /cgn2_6/ptodata/1/ina/RE COMB.seq.*
- 9: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2711.2	92.0	2850	US-09-184-964-2	Sequence 2, Appli
2	61.6	2.1	1141	US-09-806-708B-22	Sequence 22, Appli
3	54.4	1.8	1141	US-09-806-708B-22	Sequence 22, Appli
4	53.6	1.8	6265	US-09-129-112-3	Sequence 3, Appli
5	52.8	1.8	50000	US-09-662-254B-25	Sequence 25, Appli
6	52.6	1.8	396	US-09-640-173-53	Sequence 53, Appli
7	52.6	1.8	396	US-09-713-550-53	Sequence 53, Appli
8	52.6	1.8	396	US-09-825-294-53	Sequence 53, Appli
9	52.6	1.8	396	US-09-970-966-53	Sequence 53, Appli
10	52.2	1.8	1039	US-09-902-540-1280	Sequence 1280, Ap
11	51.8	1.8	96922	US-09-949-016-17061	Sequence 17061, A
12	51.4	1.7	1830	US-09-662-254B-27	Sequence 27, Appli
13	51.4	1.7	33392	US-09-662-254B-27	Sequence 27, Appli
14	51.4	1.7	50000	US-09-662-254B-23	Sequence 23, Appli
15	50.4	1.7	580073	US-08-545-528D-1	Sequence 1, Appli
16	49.8	1.7	612	US-09-902-540-1357	Sequence 1357, Ap
17	49	1.7	451924	US-09-949-016-12896	Sequence 12896, A
18	49	1.7	451925	US-09-949-016-17305	Sequence 17305, A
19	48.2	1.6	6243	US-09-056-075-1	Sequence 1, Appli
20	48.2	1.6	53332	US-09-801-861-3	Sequence 3, Appli
21	48.2	1.6	53332	US-10-224-562-3	Sequence 3, Appli
22	48.2	1.6	53332	US-10-786-065-3	Sequence 3, Appli
23	48.2	1.6	1664976	US-08-916-421B-1	Sequence 1, Appli
24	48.2	1.6	1664976	US-09-692-570-1	Sequence 1, Appli

Sequence 13, Appli
Sequence 33, Appli
Sequence 1, Appli
Sequence 7, Appli
Sequence 2813, Ap
Sequence 14, Appli
Sequence 13248, A
Sequence 24, Appli
Sequence 27, Appli
Sequence 16445, A
Sequence 2, Appli
Sequence 12298, A
Sequence 15316, A
Sequence 13173, A
Sequence 6, Appli
Sequence 51987, A
Sequence 191305, A
Sequence 17216, A
Sequence 33, Appli
Sequence 196365, A
Sequence 1038, Ap

ALIGNMENTS

RESULT 1
US-09-184-964-2
; Sequence 2, Application US/09184964
; Patent No. 6391574
; GENERAL INFORMATION:
; APPLICANT: Rine, Jasper D.
; APPLICANT: Boyartchuk, Victor L.
; APPLICANT: Ashby, Matthew N.
; TITLE OF INVENTION: AFCl AND RCe1: ISOPRENYLATED CAAX
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 2200 Sand Hill road, suite 100
; CITY: Menlo Park
; STATE: CA
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/184,964
; FILING DATE: 03-NOV-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/902,774
; FILING DATE: 30-JUL-1997
; APPLICATION NUMBER: 60/023,491
; FILING DATE: 07-AUG-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Suyat, Reginald J.
; REGISTRATION NUMBER: 28,172
; REFERENCE/DOCKET NUMBER: 09272-006004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/322-5070
; TELEFAX: 650/854-0875
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2850 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: Genomic DNA
US-09-184-964-2

Query Match		92.0%;	Score 2711.2;	DB 3;	Length 2850;	
Best Local Similarity		96.4%;	Pred. No. 0;			
Matches 2845;		Conservative 0;	Mismatches 3;	Indels 102;	Gaps 3;	
QY	1	TGAACCTGTTGATGAACAAAGAGAGAGCTGACAAAGCATCAAAAGCTTTGTACGATGATTTCCA	60			
DB	1	TGNACTGTTGATGAACAAAGAGAGAGCTGACAAAGCATCAAAAGCTTTGTACGATGATTTCCA	60			
QY	61	TTCAAAAAATTTTGAATATATGAACCAAGTTCACAAAGAAATTTTCTTGAATATAAATGAGTT	120			
DB	61	TTCAAAAAATTTTGAATATATGAACCAAGTTCACAAAGAAATTTTCTTGAATATAAATGAGTT	120			
QY	121	ATATATATATGAATAGGGAGAGCGTAGGCCAAGGAACCTGAAATTTTACAGATTTTATATAC	180			
DB	121	ATATATATATGAATAGGGAGAGCGTAGGCCAAGGAACCTGAAATTTTACAGATTTTATATAC	180			
QY	181	TTACACAGCTGTTTAAACGATATCGAAAGCATTTGCAACTTTGAAAGTTAGTGTTCACAACTT	240			
DB	181	TTACACAGCTGTTTAAACGATATCGAAAGCATTTGCAACTTTGAAAGTTAGTGTTCACAACTT	240			
QY	241	ATCCAACTTTTAAAAAACAAGTTCAGTACCTTAAACAAACACTCAAGACGCGATTATC	300			
DB	241	ATCCAACTTTTAAAAAACAAGTTCAGTACCTTAAACAAACACTCAAGACGCGATTATC	300			
QY	301	TGAGGATTCAAATATCGCACACAGGTAAACGCTAGTTCATCGTCCCGAGTTCAGCGTCATT	360			
DB	301	TGAGGATTCAAATATCGCACACAGGTAAACGCTAGTTCATCGTCCCGAGTTCAGCGTCATT	360			
QY	361	AACGCCAGTAACTTCTTCAACGAGTAGTATTTATTTTACCTAGCGGTAGCTCGTCTAC	420			
DB	361	AACGCCAGTAACTTCTTCAACGAGTAGTATTTATTTTACCTAGCGGTAGCTCGTCTAC	420			
QY	421	TTCCCTGAAATTTACAGACAGATTTGTCATAAATGGTGTAGGATTTGCTCTTTACAGTA	480			
DB	421	TTCCCTGAAATTTACAGACAGATTTGTCATAAATGGTGTAGGATTTGCTCTTTACAGTA	480			
QY	481	CAACAGAGCATTAATGTGNACTTGAATTTATATAGGACATTAAGGAACCTTTAATTC	540			
DB	481	CAACAGAGCATTAATGTGNACTTGAATTTATATAGGACATTAAGGAACCTTTAATTC	540			
QY	541	AAGTTTGTAAAGCTGCTATGTTGTAGTATTTATGCGTTTCGAGTAATGATTAATAATTGA	600			
DB	541	AAGTTTGTAAAGCTGCTATGTTGTAGTATTTATGCGTTTCGAGTAATGATTAATAATTGA	600			
QY	601	AAACCATCTTTGGCGTAGCGAAGATTTGATATCCCTATTTCTGTGTAGGCAAGTGACAAATA	660			
DB	601	AAACCATCTTTGGCGTAGCGAAGATTTGATATCCCTATTTCTGTGTAGGCAAGTGACAAATA	660			
QY	661	AAAAACATTTAGAAAAAATTTCTCGTTACTTTTCTTATAGATATAGATATATGATGTTT	720			
DB	661	AAAAACATTTAGAAAAAATTTCTCGTTACTTTTCTTATAGATATAGATATATGATGTTT	720			
QY	721	GCTTATAGATGAAGGATTTATCGCGTCTTTGTTATTTCCCTATTTAATAAATAATCTTT	780			
DB	721	GCTTATAGATGAAGGATTTATCGCGTCTTTGTTATTTCCCTATTTAATAAATAATCTTT	780			
QY	781	TAAAAATGCAATTTCTGGTCTCTTTTGTGCTCTGTAATTTTTTTTTTTTGGACACATG	840			
DB	781	TAAAAATGCAATTTCTGGTCTCTTTTGTGCTCTGTAATTTTTTTTTTTTGGACACATG	840			
QY	841	GATGGAAAACTTTGATGATTTTATACCTTTTAACTTTTAACTTACTTAAATATCGAGATTT	900			
DB	841	GATGGAAAACTTTGATGATTTTATACCTTTTAACTTTTAACTTACTTAAATATCGAGATTT	900			
QY	901	CAGGAAACAAACATAGAAATTTCTTTGTCAAGAAAAATAAAGGAAATAAATTTGATGCTT	960			
DB	901	CAGGAAACAAACATAGAAATTTCTTTGTCAAGAAAAATAAAGGAAATAAATTTGATGCTT	960			
QY	961	TGACTACTGATGCTGTCTGATAGAGAACACAGAAAGCAATGCTACAACTTCTCAACATT	1020			
DB	961	TGACTACTGATGCTGTCTGATAGAGAACACAGAAAGCAATGCTACAACTTCTCAACATT	1020			
r, QY	1021	TCTAGTCTCTATACATCTCCATATCCTATGTGCTACCGCTATATGCAACTTTCACAACC	1080			

1021	TCTAGTCTCTATACATCTCCATATCCTATGTGCTACCGCTATATGCAACTTTCACAACC	1080
1081	AGAAGGGCTTAAACGAGATAATCTCGAACGATTAAATCTCGCATGCAAAAACTTTACAAAT	1140
1081	AGAAGGGCTTAAACGAGATAATCTCGAACGATTAAATCTCGCATGCAAAAACTTTACAAAT	1140
1141	TATGCTAATTTTCCAACCTTTTGGTGGCTTTTACAACTCAATCTCTAGTACCAC	1200
1141	TATGCTAATTTTCCAACCTTTTGGTGGCTTTTACAACTCAATCTCTAGTACCAC	1200
1201	TTACATATATAGTTTCAAGGACGCAATTTTAGGCTTAGGTATTTATCCAGGTTTATACGC	1260
1201	TTACATATATAGTTTCAAGGACGCAATTTTAGGCTTAGGTATTTATCCAGGTTTATACGC	1260
1261	TGCATTGCGAAACCCCTTGGCAATTCAGCCAGTTCGTGAAAGACTTTAAGCAAAATGTTTGC	1320
1261	TGCATTGCGAAACCCCTTGGCAATTCAGCCAGTTCGTGAAAGACTTTAAGCAAAATGTTTGC	1320
1321	GATGTTATTTGACCTTATATTTGGACCCGTTTACCATCAATTTTGTATTTATATCAATTTTAA	1380
1321	GATGTTATTTGACCTTATATTTGGACCCGTTTACCATCAATTTTGTATTTATATCAATTTTAA	1380
1381	TCCAAAGAGCTCTATATCTTGAAGATTTTACCATCAATTTTGTGAGTTTTCAG	1440
1381	TCCAAAGAGCTCTATCTTGAAGATTTTACCATCAATTTTGTGAGTTTTCAG	1440
1441	GAAATTTATTTGCAACCAATTAACCTGAGGAAATATTTTACAGTCAATCTTTGACTAC	1500
1441	GAAATTTATTTGCAACCAATTAACCTGAGGAAATATTTTACAGTCAATCTTTGACTAC	1500
1501	GTACTTAAACCTTAATACCGCATTCGCAACTAGCTATCAACAGTATTTTGGCAACCATC	1560
1501	GTACTTAAACCTTAATACCGCATTCGCAACTAGCTATCAACAGTATTTTGGCAACCATC	1560
1561	GCTTTTTTTGACCTTGGCGACGCAACCATCTTATGAGCAATTTACAGAAAGGCTCCAT	1620
1561	GCTTTTTTTGACCTTGGCGACGCAACCATCTTATGAGCAATTTACAGAAAGGCTCCAT	1620
1621	GACAACTGTTTCCATCTGCTGACAACTGCTTCCAAATTTTATACAACTTTTGG	1680
1621	GACAACTGTTTCCATCTGCTGACAACTGCTTCCAAATTTTATACAACTTTTGG	1680
1681	AGGGTTAAACCAAGTTGATTTCTGTAAGAACAGCGGAAACCTTATGCTGCTGATAATCCT	1740
1681	AGGGTTAAACCAAGTTGTA-----TTGCAATATCATGGGGTTTAAATGCTTCAAGATTGAAATTTACATTTTAC	1750
1741	GCATGCCCTTTTGAATATCATGGGGTTTCTGCTCTTCAAGATTGAAATTTACATTTTAC	1800
1700	-----TTGCAATATCATGGGGTTTAAATGCTTCAAGATTGAAATTTACATTTTAC	1750
1801	AGTAGTAGAACAAAGAGCTGGACCGAATTTCCAAATTTGG--TCTCAATCTGGAATAAGTGC	1858
1751	AGTAGTAGAACAAAGAGCTGGACCGAATTTCCAAATTTGGTCTCTCAATCTGGAATAAGTGC	1810
1859	TACTTTCGACTCTGCTGCTGATTAATATCCCTGGAAGATACCTTACAACTCTGGTA	1918
1811	TACTTTCGACTCTGCTGCTGATTAATATCCCTGGAAGATACCTTACAACTCTGGTA	1870
1919	GGAACTCTCTGGTTATAGAAATAAACCTTTTAGCCCTTTTATACGTAATTTGTATACCGTTTAA	1978
1871	GGAACTCTCTGGTTATAGAAATAAACCTTTTAGCCCTTTTATACGTAATTTGTATACCGTTTAA	1930
1979	ATTTCTCTATGATATAAACCTTTTTCACACTACTATATGGAATTTCTATCGAGGACCGG	2038
1931	ATTTCTCTATGATATAAACCTTTTTCACACTACTATATGGAATTTCTATCGAGGACCGG	1990
2039	CTTTTCTGACGGAAGAGTCAAAAAATTCGAGTTTGTGTTTGGTCAAAAGAAATTTGAGG	2098
1991	CTTTTCTGACGGAAGAGTCAAAAAATTCGAGTTTGTGTTTGGTCAAAAGAAATTTGAGG	2050
2099	ACTATAAAGTACCTATACCTTTGATTTACGGAACCTCAATAACAAGTCTGTTCTGTCAGTGGT	2158

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Db 2051 ACTATAAGTACCTATCTTTGTATTACGGACTCAATAACCAAGTCGTTGCGTCAAGTGT 2110
Qy 2159 ATTGAAGTTGTCAGATCTAAGAGTAGAGAGAAGGTGGCATCTAATAGGTTTCGAGCTTTT 2218
Db 2111 ATTGAAGTTGTCAGATCTAAGAGTAGAGAGAAGGTGGCATCTAATAGGTTTCGAGCTTTT 2170
Qy 2219 TCTTTTTTAAAGTTTATTTAGTCTCTCTAGAAATTAAGGTCTTAGTTAGTTTGGTTT 2278
Db 2171 TCTTTTTTAAAGTTTATTTAGTCTCTCTAGAAATTAAGGTCTTAGTTAGTTTGGTTT 2230
Qy 2279 GTTTTGTGGTTTACATATTTTCAATTCAAAGGAGAAATTTAGCTGTCTTTTATAATGTCCA 2338
Db 2231 GTTTTGTGGTTTACATATTTTCAATTCAAAGGAGAAATTTAGCTGTCTTTTATAATGTCCA 2290
Qy 2339 ATAGAGATAACGAGAGCATGCTGCGTACTACATCAAGCGATAAGCGCATCGTAGTCAAA 2398
Db 2291 ATAGAGATAACGAGAGCATGCTGCGTACTACATCAAGCGATAAGCGCATCGTAGTCAAA 2350
Qy 2399 GGGATAAACGGAAGTCTGAAGTTTGTGTTGCTGCACAGTCCCTTCACAATGAAATCCGCA 2458
Db 2351 GGGATAAACGGAAGTCTGAAGTTTGTGTTGCTGCACAGTCCCTTCACAATGAAATCCGCA 2410
Qy 2459 GCGTAAAAAACCTAAAAAGATTGTCGATTGGGTCAATGGATTACTTATTGATCCAGAA 2518
Db 2411 GCGTAAAAAACCTAAAAAGATTGTCGATTGGGTCAATGGATTACTTATTGATCCAGAA 2470
Qy 2519 TAGATATAAAATTCGGTGGGGAATCTAGTGGAGACGATCATGTTCTGGCAGCATCCA 2578
Db 2471 TAGATATAAAATTCGGTGGGGAATCTAGTGGAGACGATCATGTTCTGGCAGCATCCA 2530
Qy 2579 GTTCGCGTCAATGCGCAAGTGCACACACCCGTTTAAACACACGATATAGCGATCCAA 2638
Db 2531 GTTCGCGTCAATGCGCAAGTGCACACACCCGTTTAAACACACGATATAGCGATCCAA 2590
Qy 2639 CTCCGCTAGAGAACTTGCATGGAGGGGTAACTCAGGGATAGAACTCCTCCAATAAGACTA 2698
Db 2591 CTCCGCTAGAGAACTTGCATGGAGGGGTAACTCAGGGATAGAACTCCTCCAATAAGACTA 2650
Qy 2699 AACAGGTAACTACTTAGGTATAAAAAAGGTGTTCACTCTCCATCCAGGAAATTAATG 2758
Db 2651 -----AAATTAATG 2660
Qy 2759 CTAAGCTATTAAGAAAAAATTTATTATGGTTTCCGCGCAATCAACACACCTTAACGTTAAGC 2818
Db 2661 CTAAGCTATTAAGAAAAAATTTATTATGGTTTCCGCGCAATCAACACACCTTAACGTTAAGC 2720
Qy 2819 CTGATAATTTCTAGAGCTTGTACAAGATACTTTACAAAATATACAACTAAGCGCAATG 2878
Db 2721 CTGATAATTTCTAGAGCTTGTACAAGATACTTTACAAAATATACAACTAAGCGCAATG 2780
Qy 2879 GTGAAGATAATGATGGGAATAGCAATGAAAATAACGATATTGAGGATAATGGGGAGGATA 2938
Db 2781 GTGAAGATAATGATGGGAATAGCAATGAAAATAACGATATTGAGGATAATGGGGAGGATA 2840
Qy 2939 AAGAATCACA 2948
Db 2841 AAGAATCACA 2850
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RESULT 2

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US-09-806-708B-22/c
; Sequence 22, Application US/09806708B
; Patent No. 6784342
; GENERAL INFORMATION:
; APPLICANT: The University of British Columbia
; TITLE OF INVENTION: Regulation of Embryonic Transcription in Plants
; FILE REFERENCE: 4810-58741
; CURRENT APPLICATION NUMBER: US/09/806,708B
; PRIORITY FILING DATE: 2001-04-03
; PRIOR FILING DATE: 1999-08-04
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.0
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; SEQ ID NO 22
; LENGTH: 1141
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; NAME/KEY: promoter
; LOCATION: (1)..(1141)
; OTHER INFORMATION: consensus sequence of A.t., L.a., and B.n. FAE1 promoters
US-09-806-708B-22
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Query Match 2.11; Score 61.6; DB 3; Length 1141;
Best Local Similarity 11.08; Pred. No. 0.00011;
Matches 109; Conservative 356; Mismatches 521; Indels 4; Gaps 1;

Qy 427 GAAATTTTACAGACAGATTGTTCAATAATGGTTAGGATTGCTCTCTTTACAGTACAAACG 486
Db 1083 GATCWCWYWTGTRRRWCMRTYAMRTWYTRSNANWSCATKBWMTWTKMYATKYRTAWTAM 1024
Qy 487 AGACATTAATGTGAACCTTGAATTTAATAAGACCATTAAGGAAACTTTTAAATTCCAAAGTTT 546
Db 1023 WCAWRNNMWCATNGYAKSCATNNAMWYATTRWAAAYAAAKWARWAGNNMRMYGAAAGNKW 964
Qy 547 TGAAGTCGCTATGTTGTAGGTTTATTTGCGTTCGAGTAATGATTAATAATTTGAAACCA 606
Db 963 GCMAAMATMGBWADTAGKMCNNNNNNWTTDVRERMAKAKNNNNNNNAWTACYNRAATTNN 904
Qy 607 TCTTGGCGTAGCGAAGATTGATATCCCTATTTCTGTTAGGCAAGTGACAAATAAAAAA 666
Db 903 KMATHMKNWTHGASHKRTTHHTTCRTKYNNNNNNNARTVYWHHAARRMNNAWTWTN 844
Qy 667 CATTAGAAAAAATCTCGTTACTTTCTTATAGATATAGATATATGATGTTGCTTTAT 726
Db 843 NNNNNNNNACRNTTWWABKHSWCNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 784
Qy 727 AGATGAAGTATTTATCGCGTCTTTGATATCCCTATTTAATAAATAAATCTTTTAAAT 786
Db 783 AARMARTCNMYHAAVTTTHTDWCYKTMNTWDMWMTTMBTTTTTRNTMTSTNNNNNN 724
Qy 787 GCATTTTCTGTCGTCCTTTGTTGTCCTGATTTTCTTTTCTTTTCTTTTGGACCATGGATGA 846
Db 723 NNMWACTNNNNNNWKAYYAHATNNWGCWNNNTDARTNNNTTVMRRMNTWTKRWYSTT 664
Qy 847 AAACCTTTGATGATTTTATTACCTTTTAAAGTTTAACTAAATAATCGAGATTTTCAGGAA 906
Db 663 RRHHTGATNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 604
Qy 907 CAAACATAGAAATTTCTTTGTCAGAAAAATAAAACGAAATAAATGATGCTTTGACTA 966
Db 603 VDVWADSWVWYANWMCRDVYTRNNNTYCKSYAHSYWYNSNNAMWYRRYSARINWSSMAR 544
Qy 967 CTGACTGCTGTATAGAGAGAACGAGAACGAGCAATGCTACAAATCTCAACATTTCTAGT 1026
Db 543 WTTNNNNMWSGBVRWAGTMMWRHNNNNNTDTRYWYWWKRWABRTTTVYDSMCAKSNW 484
Qy 1027 GCTCCTATACATCTCCATATCCTATGCTACCCCTATATGCAACTTTCACACACGAGAG 1086
Db 483 RGNWRKMKWAAANDAGAMDHW- - -YWMGNNTWMMRBAWKMMWMAWCBRAVCNNN 428
Qy 1087 GTCTAAACGAGATAATCTCGAAGCATTAATCTCGCATGCAAAACCTTACAAATATGCT 1146
Db 427 NNRACVHHKHWKRWWTWKYMKAAACNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 368
Qy 1147 AATTTCCAACTTTTGGTGGCTTTTTCACATCTCAATCTCAATCTAGTACCCTTACA 1206
Db 367 HWYTVDTYMMRAWNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 308
Qy 1207 TATAAGTTTCAAGGACGCAATTTTAGCTTAGGTATATCCAGGTTTATACGCTGCAAT 1266
Db 307 AGASBNVTYWCWMTYMGKTWNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 248
Qy 1267 GCCAAACCTTTGGCAATTCAGCCAGTTCTGCGAAGACTTAACGAAATCTGTTGCGATGTT 1326
Db 247 YCYAYBYBYBMKGHHHWWRRABHRSNNNNWVKCRNKYMVSVWHYHAMRYBKWABAVGC 188
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QY	793	TCGTGTCCTCTTCTGTCGTATTTTTTTTTTTTGACCACTGGATGGAACCT	852
Db	9975	TGGGATAGTATTAATGATATATTTTATCATATCTGTCAAATGATTTACATAT	10034
QY	853	TTGATGATTTTATACCTTTATTTTAAAGTTACTAAATAT	892
Db	10035	CTTCCAAATTAATATCTTTCCGAATTAATATATTGTAATTT	10074

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RESULT 6
US-09-640-173-53
; Sequence 53, Application US/09640173
; Patent No. 6613515
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: OVARIAN TUMOR SEQUENCES AND
; TITLE OF INVENTION: METHODS OF USE THEREFOR
; FILE REFERENCE: 210121.484C2
; CURRENT APPLICATION NUMBER: US/09/640,173
; CURRENT FILING DATE: 2000-08-15
; NUMBER OF SEQ ID NOS: 196
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 53
; LENGTH: 396
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(396)
; OTHER INFORMATION: n = A,T,C or G
US-09-640-173-53

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QY      859 ATTTTATTACCTTTATTTTAAGTTTACTAAAAATATCGAGA 897
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Db      232 TTNTTTTNCCTTTNTTTTAATTCANAAAAGAANAAGA 270
        ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 7
US-09-713-550-53
; Sequence 53, Application US/09713550
; Patent No. 6617109
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Stolk, John A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; TREATMENT OF OVARIAN CANCER
; FILE REFERENCE: 210121.484C4
; CURRENT APPLICATION NUMBER: US/09/713.550
; CURRENT FILING DATE: 2000-11-14
; NUMBER OF SEQ ID NOS: 205
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 53
; LENGTH: 396
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:

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; NAME/KEY: misc.feature
; LOCATION: (1)...(396)
; OTHER INFORMATION: n = A,T,C or G
US-09-713-550-53

Query Match      1.8%; Score 52.6; DB 3; Length 396;
Best Local Similarity 51.1%; Pred. No. 0.011;
Matches 112; Conservative 0; Mismatches 107; Indels 0; Gaps 0;

QY 679 TTCTCGTACTTTCTTATAGATATAGATATATGTTGCTTATAGATGAAGGTAT 738
Db 52 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 111

QY 739 TTATCGGTCCTTTGTTATCCCTATTTATTAATAAAATCTTTTAAATGCAATTTCTGGT 798
Db 112 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 171

QY 799 GCTCTTTTGTCTGCTCTGTTATTTTCTTTTGGACCACTGATGGAACCTTTTGATG 858
Db 172 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 231

QY 859 ATTTTATTACCTTTTATTTTAAAGTTACTAAATATCGAGA 897
Db 172 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 231

QY 859 ATTTTATTACCTTTTATTTTAAAGTTACTAAATATCGAGA 897
Db 232 TTNTTTTNCCTTTTNTTTTAAATTCANAAAAAGANAAGA 270

RESULT 8
US-09-825-294-53
; Sequence 53, Application US/09825294
; Patent No. 6710170
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Stolk, John A.
; APPLICANT: Fling, Steven P.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; FILE REFERENCE: 210121.484CS
; CURRENT APPLICATION NUMBER: US/09/825,294
; CURRENT FILING DATE: 2001-04-03
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 53
; LENGTH: 396
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc.feature
; LOCATION: 224, 225, 228, 235, 240, 246, 257, 266, 274, 279, 281, 282,
; LOCATION: 283, 285, 287, 288, 290, 291, 292, 293, 294, 295, 296, 297,
; LOCATION: 300, 301, 303, 307, 311, 313, 314, 317, 318, 319, 320, 321,
; LOCATION: 323, 324, 328, 329, 330, 336, 337, 338, 339, 340, 341
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc.feature
; LOCATION: 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 356,
; LOCATION: 357, 358, 359, 362, 363, 364, 365, 366, 367, 373, 380, 381,
; LOCATION: 382, 385, 387, 388, 389, 390, 392
; OTHER INFORMATION: n = A,T,C or G
US-09-970-966-53

Query Match      1.8%; Score 52.6; DB 3; Length 396;
Best Local Similarity 51.1%; Pred. No. 0.011;
Matches 112; Conservative 0; Mismatches 107; Indels 0; Gaps 0;

QY 679 TTCTCGTACTTTCTTATAGATATAGATATATGTTGCTTATAGATGAAGGTAT 738
Db 52 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 111

QY 739 TTATCGGTCCTTTGTTATCCCTATTTATTAATAAAATCTTTTAAATGCAATTTCTGGT 798
Db 112 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 171

QY 799 GCTCTTTTGTCTGCTCTGTTATTTTCTTTTGGACCACTGATGGAACCTTTTGATG 858
Db 172 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 231

QY 859 ATTTTATTACCTTTTATTTTAAAGTTACTAAATATCGAGA 897
Db 172 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 231

QY 859 ATTTTATTACCTTTTATTTTAAAGTTACTAAATATCGAGA 897
Db 232 TTNTTTTNCCTTTTNTTTTAAATTCANAAAAAGANAAGA 270

RESULT 9
US-09-970-966-53
; Sequence 53, Application US/09970966
; Patent No. 6720146
; GENERAL INFORMATION:
; APPLICANT: Stolk, John A.
; APPLICANT: Molesch, David Alan
; APPLICANT: Fling, Steven P.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.484C6
; CURRENT APPLICATION NUMBER: US/09/970,966
; CURRENT FILING DATE: 2001-10-02
; NUMBER OF SEQ ID NOS: 215
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 53
; LENGTH: 396
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc.feature
; LOCATION: 224, 225, 228, 235, 240, 246, 257, 266, 274, 279, 281, 282,
; LOCATION: 283, 285, 287, 288, 290, 291, 292, 293, 294, 295, 296, 297,
; LOCATION: 300, 301, 303, 307, 311, 313, 314, 317, 318, 319, 320, 321,
; LOCATION: 323, 324, 328, 329, 330, 336, 337, 338, 339, 340, 341
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: misc.feature
; LOCATION: 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 356,
; LOCATION: 357, 358, 359, 362, 363, 364, 365, 366, 367, 373, 380, 381,
; LOCATION: 382, 385, 387, 388, 389, 390, 392
; OTHER INFORMATION: n = A,T,C or G
US-09-970-966-53

Query Match      1.8%; Score 52.6; DB 3; Length 396;
Best Local Similarity 51.1%; Pred. No. 0.011;
Matches 112; Conservative 0; Mismatches 107; Indels 0; Gaps 0;

QY 679 TTCTCGTACTTTCTTATAGATATAGATATATGTTGCTTATAGATGAAGGTAT 738
Db 52 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 111

QY 739 TTATCGGTCCTTTGTTATCCCTATTTATTAATAAAATCTTTTAAATGCAATTTCTGGT 798
Db 112 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 171

QY 799 GCTCTTTTGTCTGCTCTGTTATTTTCTTTTGGACCACTGATGGAACCTTTTGATG 858
Db 172 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 231

QY 859 ATTTTATTACCTTTTATTTTAAAGTTACTAAATATCGAGA 897
Db 232 TTNTTTTNCCTTTTNTTTTAAATTCANAAAAAGANAAGA 270

RESULT 10
US-09-902-540-1280/c
; Sequence 1280, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 1280
; LENGTH: 1039
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; TYPE: DNA
; ORGANISM: Myxococcus xanthus
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(1039)
; OTHER INFORMATION: unsure at all n locations
US-09-902-540-1280

Query Match          1.8%; Score 52.2; DB 3; Length 1039;
Best Local Similarity 52.0%; Pred. No. 0.017;
Matches 117; Conservative 0; Mismatches 108; Indels 0; Gaps 0;

Qy 676 AAATTCCTCGTACTTTCTTATAGATATAGATATATGTTGCTTATAGATGAAGG 735
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 326 AATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 267
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 736 TATTTATCGCGTCCTTGTATTCCTATTATTAATAAAATCTTTTAAATGCAATTTCT 795
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 266 TTTTATGATGTTTGTATTTTATATATTTTTTTTTTTTTTTTTTTTTTATAAGTTTTT 207
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 796 GGTGCTCTTTGTCCTCTGATTTTTTTTTTTTTTTTGGACCACTGGATGGAAAACCTTGG 855
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 206 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATATTTTTTTTTTTT 147
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 856 ATGATTTTATTACCTTTATTTTAACTTACTAAATATCGAGATTT 900
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 146 TATATTTGTTTTTATTTTTTTTTTTTAAATATTTGTTTTTTTATTT 102
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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RESULT 11
US-09-949-016-17061
; Sequence 17061, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17061
; LENGTH: 96922
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-17061
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Query Match          1.8%; Score 51.8; DB 3; Length 96922;
Best Local Similarity 45.1%; Pred. No. 0.084;
Matches 234; Conservative 0; Mismatches 282; Indels 3; Gaps 1;

Qy 522 TTAGGAACTTTAATTCGAAGTTTGAAGCTGCCTATGTTGTAGGTTTTTATTCGGTTC 581
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 38329 TTTATTTATCTGTTTTTGGCCATACATATATATTTATATATATATTTATATATATTTA 38388
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 582 GAGTAATGATTAATTTGAAACCACTTTGGCGTAGCGAAGATTGATATCCCTATTTCTG 641
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 38389 ATATATAAAATATATTTTATATATATTTTGATATAATAATATTTATATATATATTTG 38448
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 642 TTAGCAAGTGCACAAATAAATAACATAGAAAAATCTCGTTACTTTTCTTATAGAT 701
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 38449 ATATATAAATATGTTTTTATATATATTTTGATATAAATAATGTTTTATATATTTTGAT 38508
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 702 ATAGATATATGATGTTTGTCTTATAGATGAAGGATTTATTCGCGCTCTTTGTATTCCT 761
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 38509 ATAAATATGTTTATATATATTTTGATATATAATGTTTATATA--TATTTGATATATAA 38565
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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Qy 762 ATTATTAATAAAATTCCTTTAAATGCAATTTTCGGTGCCTCTTTTGTCTCTGTATTT 821
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 38566 TATAATGTTTATATATATTTGATATATATAAATATATATATATATATATATATATATA 38625
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 822 TTTTITTTTTGGACCACTGGATGGAACCTTTTGATGATTTTATACCTTTATTTTAAAGT 881
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 38626 TATGTTTATATATTTTAATATATAATAATATATGTTTATATATATATATAATAATATATTT 38685
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 882 TACTAAATATCGAGATTTTCAGGAACAAACATAGATTTTCTTTGTCAGAAAAATAAA 941
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 38686 TATATATTTATATATATTTTATATATATTTAATATATATATTTAATAGATAAATACATATAT 38745
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 942 ACGAAATAAATTTGATGCTTTTGACTACTGCTGCTGTCTAGAGAGAACCAAGAACAGCAA 1001
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 38746 ATTTAATAGATAAATACATATATATTTAATAGATAAATACATTTATATATATATATA 38805
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1002 TGTACAAATTTCTCAACAATTTCTAGTGTCTCTATACATCT 1040
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 38806 TATTTAATATAAATACATTTATATATAATATATATATATATATATATATATATATAT 38844
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 12
US-09-662-254B-67
; Sequence 67, Application US/09662254B
; Patent No. 6933145
; GENERAL INFORMATION:
; APPLICANT: Moyer, Richard W.
; APPLICANT: Li, Yi
; APPLICANT: Bawden, Alison Louise
; TITLE OF INVENTION: Materials and Methods for Delivery and Expression of Heterologous
; TITLE OF INVENTION: Vertebrate Cells
; FILE REFERENCE: UP-221C1XC1
; CURRENT APPLICATION NUMBER: US/09/662,254B
; CURRENT FILING DATE: 2000-09-14
; PRIOR APPLICATION NUMBER: 09/086,651
; PRIOR FILING DATE: 1998-05-29
; PRIOR APPLICATION NUMBER: 60/224,479
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 80
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 67
; LENGTH: 1830
; TYPE: DNA
; ORGANISM: Amsacta moorei entomopoxvirus
; FEATURE:
; NAME/KEY: exon
; LOCATION: (1)..(1830)
; OTHER INFORMATION:
US-09-662-254B-67
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Query Match          1.7%; Score 51.4; DB 3; Length 1830;
Best Local Similarity 44.0%; Pred. No. 0.032;
Matches 217; Conservative 0; Mismatches 276; Indels 0; Gaps 0;

Qy 460 TAGGATTCCTCTTTTACAGTACAAACGAGACATTAATGTGAACCTTGGAAATTTAATAAGGA 519
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1101 TAATATTCCTGTTTTTAAAGCAGAAACATTTATTTAATAGTAATAAACAACAATAATAA 1160
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 520 CATTAAAGGAACTTTAATTCCTCAAGTTTGAAGCTGCCTATGTTGTAGGTTTTTATTCGCT 579
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1161 AAATAAATAACAAATATTAATAATAAATAAATAAATAAATAAATAAATAAATAAATAA 1220
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 580 TCGAGTAAATGATTAATTTGAAACCACTTTGGCGTAGCGAAGATTGATATCCCTATTTTC 639
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1221 ATTTTGTGAATGTTTATTTGAAGTAAATTTGAATAAATAAATAAATAAATAAATAAATAA 1280
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 640 TGTTAGCAAGTGCACAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 699
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1281 AAATACAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 1340
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 700 ATATAGATATATGATGTTTGTCTTATAGATGAAGGATTTATTCGCGCTCTTTGTATTC 759
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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Db 1341 TTATCCTAAATATATATTTTATTAATAATATTTTATAATTTACTTTTTTCTTAATATAT 1400
Qy 760 CTATATTAATAATAAATCTTTTAAATGCAATTTCTGGTGCCTCTTTTGTGCTTCGTAT 819
Db 1401 TTTAAATATTTGACGATGCTATAGAAATATGTAATAATAAAACCTTATTTTAAATTTATTA 1460
Qy 820 TTTTCTTTTCTGGACCACTGGATGAAACCTTTTCATGATTTTATTAACCTTTATTTTAA 879
Db 1461 TAATATTAATGTAGAAATAATTTTAAACAAATATATTTAATAATAATAAAATAA 1520
Qy 880 GTTACTAAATATCGAGATTTTCAGGAACAAACATAGAAATTTTCTTTGTCAAGAAAAATA 939
Db 1521 CATAAATACAAATCATGATTTTCATAACAGCATTTATACATATATAATTTGTAATAAATA 1580
Qy 940 AAACGAAATAAT 952
Db 1581 TTGTTATATACAT 1593

RESULT 13

US-09-662-254B-27/c

; Sequence 27, Application US/09662254B

; Patent No. 6933145

; GENERAL INFORMATION:

; APPLICANT: Moyer, Richard W.

; APPLICANT: Li, Yi

; APPLICANT: Bawden, Alison Louise

; TITLE OF INVENTION: Materials and Methods for Delivery and Expression of Heterologous

; FILE REFERENCE: UP-221C1XC1

; CURRENT APPLICATION NUMBER: US/09/662,254B

; PRIOR FILING DATE: 2000-09-14

; PRIOR FILING DATE: 1998-05-29

; PRIOR FILING DATE: 60/224,479

; NUMBER OF SEQ ID NOS: 80

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 27

; LENGTH: 32392

; TYPE: DNA

; ORGANISM: Amsacta moorei entomopoxvirus

US-09-662-254B-27

Query Match 1.7%; Score 51.4; DB 3; Length 32392;
Best Local Similarity 44.0%; Pred. No. 0.075;
Matches 217; Conservative 0; Mismatches 276; Indels 0; Gaps 0;

Qy 460 TAGGATTCCTCTTTACAGTACAAACGAGACATTAATGTCAACTTGGAAATTTAATAAGGA 519
Db 10157 TAATATTCCTGTTTTTAAAGCAGAAACATTAATTTAATAGTAAATAAACAACAATAATA 10098
Qy 520 CATTAGGAAACTTTTATCCAGTTTTTGAAGCTGCCTATGTTGTAGGTTTTTATTCGCT 579
Db 10097 AAATAAATAACAATAATTAATAATAGAAATTAATAATTTTAAATGTTAATAATATGAT 10038
Qy 580 TCGAGTAATGATTAATTTGAAACCACTCTTGGCGTAGCGAAGATGATATCCCTATTC 639
Db 10037 ATTTTATTAATGATTTTGAAGATAAATTTGAAATTAATAAATAATGAAATTAATAA 9978
Qy 640 TGTTAGGCAAGTACAAATAAATAAACAATAGAAATAATTCGTTACTTTTCTTATAG 699
Db 9977 AAATACAAATAATATATAAATCAGATAATAATATATATGTTGCTTAAATAAATAATA 9918
Qy 700 ATATAGATATATGATGTTTGTCTTATAGATGAAGGATTTATCGCGTCCCTTTGTATTC 759
Db 9917 TTATCCTAAATAATATTTTATTAATAATATTTTATAATTTACTTTTTTCTAATAAT 9858
Qy 760 CTATATTAATAAATCTTTTAAATGCAATTTCTCGTGCCTTTTGTGCTTCGTAT 819
Db 9857 TTTAAATATGACGATGCTATAGAAATATGTAATAATAAACCCTTATTTTAAATTAATA 9798
Qy 820 TTTTCTTTTGTGACCACTGATGGAAACCTTTTGATGATTTTATTAACCTTTTATTTAA 879

Db 9797 TAAATTAATAGTAGAAATAATTTTACACAAATATATTAATAATAATAAATAATAA 9738
Qy 880 GTTACTAAATATCGAGATTTTCAGGAACAAACATAGAAATTTTCTTTGTCAAGAAAAATA 939
Db 9737 CATAAATACAAATCATGATTTTCATAACAGCATTTATACATATATAATTTGTAATAATAA 9678
Qy 940 AAACGAAATAAT 952
Db 9677 TTGTTATATACAT 9665

RESULT 14

US-09-662-254B-23

; Sequence 23, Application US/09662254B

; Patent No. 6933145

; GENERAL INFORMATION:

; APPLICANT: Moyer, Richard W.

; APPLICANT: Li, Yi

; APPLICANT: Bawden, Alison Louise

; TITLE OF INVENTION: Materials and Methods for Delivery and Expression of Heterologous

; FILE REFERENCE: UP-221C1XC1

; CURRENT APPLICATION NUMBER: US/09/662,254B

; PRIOR FILING DATE: 2000-09-14

; PRIOR FILING DATE: 1998-05-29

; PRIOR FILING DATE: 60/224,479

; NUMBER OF SEQ ID NOS: 80

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 23

; LENGTH: 50000

; TYPE: DNA

; ORGANISM: Amsacta moorei entomopoxvirus

US-09-662-254B-23

Query Match 1.7%; Score 51.4; DB 3; Length 50000;
Best Local Similarity 43.4%; Pred. No. 0.085;
Matches 388; Conservative 0; Mismatches 496; Indels 9; Gaps 3;

Qy 591 TTAATTTTGAAACCATCTTGGCGTAGCGAAGATGATATCCCTATTTCTGTTAGGCAAG 650
Db 16822 TCBAATTTATATACATTAATATCTATTTTATCAAAATATTTGTTTATTTAATAA 16881
Qy 651 TGACAAATAAATAAACATAGAAAAATTCGTTACTTTCTTATAGATATAGATATA 710
Db 16882 ATACTATTTATATAATTAATTAATGATCATTAATAATAATTTTATTTATTTTCCA 16941
Qy 711 TGTATGTTTGTCTATAGATGAAGGTATTTATCGGCTCCTTTGTATTCCTTATTAAT 770
Db 16942 TAGATGGTATCATAAATATATTAATATATAATTAACAT---CATTAATTAATTTA 16998
Qy 771 AAAATCTTTTAAATGCAATTTTCTGGTCTCTTTTGTGTTCTGTTATTTTTTTTT 830
Db 16999 GTTATATATGTCATTTTCTTTTATTAATTAATCTGTTTTTATCAATAATTTTGTAT 17058
Qy 831 TGGACCACTGGATGGAACCTTTGATGATTTTATTAACCTTTTATTTAAAGTTACTAAAT 890
Db 17059 TTTAATAAATAATCATAAATCAATTAATAACACATTAATAATTAATTTTAAATTTTCA 17118
Qy 891 ATCGAGATTTTCAGGAACAAACATAGAAATTTCTTTGTCAAGAAAAATAAACA 945
Db 17119 AAAATTTAAGATATATCATTAATTAATAATTTTATCAAAATTAATCATTAATTTT 17178
Qy 946 AATAAATTTGATGTTTGTACTACTGCTGTGTCAATAGAGAACACAGCAATGCT 1005
Db 17179 AATTAATTCATATTTTGTGTTTTTATTAACAGTTAATAATCATATTTATATAATCAT 17238
Qy 1006 ACAATTTCTCAACATTTCTAGTCTCTATACATCTCATATCCTATGTCGTACCGCTATA 1065
Db 17239 AATTATTAATTT-TTTTATTGACATAATCATCAATCAATCAATCTATGAGTTTAT 17297

Search completed: December 8, 2005, 18:38:25
Job time : 523.407 secs

	Query Match	1.7%;	Score 50.4;	DB 3;	Length 580073;
	Best Local Similarity	50.0%;	Pred. No. 0.3;		
	Matches 152;	Conservative	0;	Mismatches 151;	Indels 1; Gaps 1;
Qy	634	TATTTCTCTAGGCAAGTGACAAAAATAAAAAACATTAGAAAAATTCCTCGTTACTTTTC			693
Db	483848	TTTTTAATTCAGCACAAACAGACATTTATGGGTAGGAATAGAGCCCATTTTGAC			483789
Qy	694	TTATAGATATAGATATATGTA-TGGTTTGCTTTATAGATGAAGGTATTTATCGCGTCCTTTT			752
Db	483788	TTAGTTTTGTTGTAATTTTATTTGCTTCCTTACTAAATTTATCTTTTTTTTAGCCCTTTTTT			483729
Qy	753	GTATTCCTCTATTATTAATAAAATCTCTTTTAAATGCAATTTCTGGTGCTCTTTTGTGTCT			812
Db	483728	TTATTTGCTTTTACTAATAACATTAATTTGGGAATTAATTCCTTTTTTGTCTATTCTACTGCT			483669
Qy	813	TCTGTATTTTTTTTTTTTTTGGACCACCTGGATGGAAAAACCTTTGATGATTTTTTATACCTTTT			872
Db	483668	TTTACTTTTAATAGTTCTTTTTTTTTTATCAGAGATAATACCAATGGCTTGAATATAGTTGAAAT			483609

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OM protein - protein search, using sw model

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(without alignments)
1380.324 Million cell updates/sec

Title: US-09-165-460A-4
Perfect score: 1651
Sequence: 1 MLQSFSTLVLLYISIVLP.....ISLKDITLQTLVGTGVRITL 315

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues
Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1621	98.2	315	2	US-09-184-964-4
2	228.5	13.8	329	2	US-09-022-669-2
3	228.5	13.8	329	2	US-09-603-567-2
4	227.5	13.8	329	2	US-09-262-749-2
5	109.5	6.6	723	2	US-09-134-001C-3586
6	105.5	6.4	223	2	US-09-583-110-5133
7	105.5	6.4	235	2	US-09-107-433-2959
8	104.5	6.3	289	2	US-09-134-001C-2917
9	97	5.9	331	2	US-09-170-496D-184
10	96.5	5.8	424	2	US-09-107-532A-5459
11	96.5	5.8	456	2	US-09-058-389A-2
12	96.5	5.8	456	2	US-09-611-781-2
13	96.5	5.8	457	2	US-09-949-016-7211
14	96	5.8	331	2	US-09-170-496D-36
15	96	5.8	331	2	US-09-910-695-4
16	95.5	5.8	662	2	US-09-248-796A-16055
17	94.5	5.7	373	2	US-09-248-796A-17973
18	93.5	5.7	755	2	US-09-489-039A-9089
19	93	5.6	384	2	US-09-134-001C-4201
20	92	5.6	248	2	US-09-134-000C-6371
21	91.5	5.5	470	2	US-09-292-071-25
22	91.5	5.5	470	2	US-09-292-069A-25
23	91.5	5.5	470	2	US-09-767-013-25
24	91.5	5.5	470	2	US-09-292-072-25
25	91.5	5.5	470	2	US-10-176-255-25
26	91.5	5.5	471	1	US-07-817-920-8
27	91.5	5.5	471	1	US-08-370-542-7

28	91.5	5.5	471	1	US-08-117-006-8	Sequence 8, Appli
29	91.5	5.5	471	1	US-08-216-594-8	Sequence 8, Appli
30	91.5	5.5	471	1	US-08-542-358-7	Sequence 7, Appli
31	91.5	5.5	471	1	US-08-244-434-2	Sequence 2, Appli
32	91.5	5.5	471	2	US-09-018-351-7	Sequence 7, Appli
33	91.5	5.5	471	2	US-09-032-742-8	Sequence 8, Appli
34	91.5	5.5	471	2	US-09-145-864-2	Sequence 2, Appli
35	91.5	5.5	471	2	US-09-170-496D-122	Sequence 122, App
36	91.5	5.5	471	2	US-10-092-138A-28	Sequence 28, Appl
37	91.5	5.5	471	2	US-08-681-219A-28	Sequence 28, Appl
38	91.5	5.5	471	4	PCT-US93-00149-8	Sequence 8, Appli
39	91	5.5	270	2	US-09-910-695-10	Sequence 10, Appl
40	90	5.5	342	2	US-09-826-509-555	Sequence 555, App
41	90	5.5	360	2	US-09-328-352-7879	Sequence 7879, Ap
42	89.5	5.4	471	1	US-07-996-772A-11	Sequence 11, Appl
43	89.5	5.4	471	2	US-09-032-742-2	Sequence 2, Appli
44	89.5	5.4	471	2	US-09-145-864-4	Sequence 4, Appli
45	89	5.4	397	2	US-09-107-532A-4918	Sequence 4918, Ap

ALIGNMENTS

RESULT 1
US-09-184-964-4
; Sequence 4, Application US/09184964
; Patent No. 6391574
; GENERAL INFORMATION:
; APPLICANT: Rine, Jasper D.
; APPLICANT: Boyartchuk, Victor L.
; APPLICANT: Ashby, Matthew N.
; TITLE OF INVENTION: APCI AND RCE1: ISOPRENLYLATED CMAX
; TITLE OF INVENTION: PROCESSING ENZYMES
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 2200 Sand Hill road, suite 100
; CITY: Menlo Park
; STATE: CA
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/184,964
; FILING DATE: 03-NOV-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/902,774
; FILING DATE: 30-JUL-1997
; APPLICATION NUMBER: 60/023,491
; FILING DATE: 07-AUG-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Suvart, Reginald J.
; REGISTRATION NUMBER: 28,172
; REFERENCE/DOCKET NUMBER: 09272-006004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650/322-5070
; TELEFAX: 650/854-0875
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 315 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: peptide
; LOCATION: 1...315
; OTHER INFORMATION: /note = "The sequence of the Rcelp
; OTHER INFORMATION: protein from yeast presented as a polypeptide sequence"
US-09-184-964-4

Db 241 GAYTAFLFIRT-GHLIGPVLCFSFCNYMGFP 270

RESULT 4

US-09-262-749-2
; Sequence 2, Application US/09262749
; Patent No. 6261793
; GENERAL INFORMATION:
; APPLICANT: Whyte, David
; APPLICANT: McGuirk, Marne
; APPLICANT: Nunez-Oliva, Irma
; APPLICANT: Hockenberry, Tish
; APPLICANT: Pai, James
; TITLE OF INVENTION: RAS CONVERTING ENDOPROTEASE (RCE) AND
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Schering-Plough Corporation
; CITY: Kenilworth
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07033
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Power Macintosh
; OPERATING SYSTEM: MACOS
; SOFTWARE: Microsoft Word
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/262,749
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Thampoe, Immac J
; REGISTRATION NUMBER: 36,322
; REFERENCE/DOCKET NUMBER: OCO1005
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908) 298-5061
; TELEFAX: (908) 298-5388
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-262-749-2

Query Match 13.8%; Score 227.5; DB 2; Length 329;
Best Local Similarity 28.7%; Pred. No. 2.3e-16;
Matches 81; Conservative 39; Mismatches 73; Indels 89; Gaps 14;
Qy 11 LVYSISYVLPLYATSOPEGSKRDNPRTIKSRMQLTIMLISNLF-LVPFLOQSLSSTTSH 69
Db 43 LSLACSYVGLVYWKSE--LPRDHAVIKRP--TSVLVWSLSPLCVLLNRELT----- 93
Qy 70 ISFKDAFLGLGIIPG-----YYAALPNPWFQSFVKDLTKCVAMLLT--LY 113
Db 94 -----GIQPGTSLTLTMGRLEGIFLAAL-----LPLLLTMLF 127
Qy 114 CQVLDV-----LYHLNPKSSILEDYHEFLNWS-----PKNFIFAPIT 155
Db 128 LGPLMLQSLMDCPCDADGLKVVLAPRS-----WARCITDMRWLRNQVIAPLT 174
Qy 156 BEIFYSMLTLYLNLIPHSQSLYQQLFWQPSLFFGLAHHAHAYEQLOGSGMTTWSILIT 215
Db 175 BELVFRACMLPM--LAPCMGLG-PAVFTCP-LFGVAHFHIIIEQLRQSSVGNIFLS 229
Qy 216 TCFQILYTLTFLGGLTKFVFRVTGGNLWCCIIHLACINMGFP 257
Db 230 AAFQFSYTAVFCAVTAFLFIRT-GHLIGPVLCFSFCNYMGFP 270

RESULT 5

US-09-134-001C-3586
; Sequence 3586, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 3586
; LENGTH: 739
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3586

Query Match 6.6%; Score 109.5; DB 2; Length 739;
Best Local Similarity 24.2%; Pred. No. 0.0059;
Matches 55; Conservative 33; Mismatches 76; Indels 63; Gaps 10;
Qy 38 IKSRMQLTIMLISNLFVLPFLOQSLSSTT-----SHISFKDAFL-GLGII 82
Db 254 VPSAMRAISATIIILMPLIPIHFRKSSIHVLSFIFVLMILLNPQFINHIGFQFSFLISLFII 313
Qy 83 PGYYAALPNPWFQSFVKDLTKCVAMLLTYCGPVLDFVLYHLNPKSSILEDFYH--EF 140
Db 314 -----LAKPY-----ISALKPLKCLFIISF-----LAQLGSIIVNTYHFNQF 350
Qy 141 LNIMSFNFIAP-----ITEEIFYSMLTLYLNLIPHSQSLYQQLFWQP 186
Db 351 QWIGLLSNFIPVFPYFIFLFPFVLIYFIIHFFQHSFLNTYINML-----FKIHDMLV 404
Qy 187 SLFGLAHHAHAYEQLOGSGMTTWSILITTCFQILYTLTFLGGLTKFV 233
Db 405 QLFLNLNHLKWIYPLKNQYSL-LILILITLIF--LYLVYRGFVTSV 448

RESULT 6

US-09-583-110-5133
; Sequence 5133, Application US/09583110
; Patent No. 6699703
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al.
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; FILE REFERENCE: PATH00-07A
; CURRENT APPLICATION NUMBER: US/09/583,110
; CURRENT FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 03/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5322
; SEQ ID NO 5133
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-09-583-110-5133

Query Match 6.4%; Score 105.5; DB 2; Length 223;
Best Local Similarity 21.3%; Pred. No. 0.0031;
Matches 54; Conservative 35; Mismatches 85; Indels 79; Gaps 10;

Qy 42 MQLTIMLISNLFVLPFLOQSLSSTTSHISFKDAFLGLGIIPGYAALPNPWFQSFVKD 101

Db 1 MKKRAIQILLALSIFKSTWFRVFNHLA-----KPYLPASREFQIILL 46
QY 102 LTKCVAMLLTLY-----CGP-----VLDVLYHLNPKSSILEDY-YHEFLNIWS----- 145
Db 47 MESGVFLAVIYLLVFAAGKIFHFQWQRYFYIYLLGYIISYMSDFLFSYFISLSSNQIS 106
QY 146 -----FRNFI-----PAPITEEIFYTSMLTTYLNLIHPHSQLSYQQLFWO---- 185
Db 107 LNETVEMGRQEPYFLLIVCFIAPABELIYRGVLMITFFKNP-----WYGDV 156
QY 186 --PSLFFGLAHAAHAYEQLEGSMITVSILLTTCFOILYTTTLFGGLTKFVVRTGGLNLMC 243
Db 157 LLSAIFGYIH-----INFALTPLAFFIYAS--GGILALLYRMTKNLY 199
QY 244 CIILHALCNIIMGF 256
Db 200 PILVHILINITAF 212

RESULT 7
US-09-107-433-2959
; Sequence 2959, Application US/09107433
; Patent No. 6800744
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
; SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE
; THERAPEUTICS
; FOR DIAGN
; NUMBER OF SEQUENCES: 5206
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: <Unknown>
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: <Unknown>
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,433
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/ 085131
; FILING DATE: May 12, 1998
; APPLICATION NUMBER: 60/051553
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 2959:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 235 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Streptococcus pneumoniae
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...235
; SEQUENCE DESCRIPTION: SEQ ID NO: 2959:
US-09-107-433-2959

Query Match 6.4%; Score 105.5; DB 2; Length 235;
Best Local Similarity 21.3%; Pred. No. 0.0033;

Matches 54; Conservative 35; Mismatches 85; Indels 79; Gaps 10;
QY 42 MQKLTIMLISNLFVLPFLOSQSSTTSHISPKDAFLGLGIIPGYAALPNWQFSQFVKD 101
Db 13 MKKRAIQILLALSIFKSTWFRVFNHLA-----KPYLPASREFQIILL 58
QY 102 LTKCVAMLLTLY-----CGP-----VLDVLYHLNPKSSILEDY-YHEFLNIWS----- 145
Db 59 MESGVFLAVIYLLVFAAGKIFHFQWQRYFYIYLLGYIISYMSDFLFSYFISLSSNQIS 118
QY 146 -----FRNFI-----PAPITEEIFYTSMLTTYLNLIHPHSQLSYQQLFWO---- 185
Db 119 LNETVEMGRQEPYFLLIVCFIAPABELIYRGVLMITFFKNP-----WYGDV 168
QY 186 --PSLFFGLAHAAHAYEQLEGSMITVSILLTTCFOILYTTTLFGGLTKFVVRTGGLNLMC 243
Db 169 LLSAIFGYIH-----INFALTPLAFFIYAS--GGILALLYRMTKNLY 211
QY 244 CIILHALCNIIMGF 256
Db 212 PILVHILINITAF 224

RESULT 8
US-09-134-001C-2917
; Sequence 2917, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 2917
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-2917

Query Match 6.3%; Score 104.5; DB 2; Length 289;
Best Local Similarity 21.0%; Pred. No. 0.0056;
Matches 66; Conservative 50; Mismatches 94; Indels 105; Gaps 14;

QY 1 MLQFSTFLVLLYISISYVLPLYATSQPEGSKEDNPRITKSRMOKLTIMLISNLFVLPFLQ 60
Db 53 ILHAUTYIVLSYFSVKWFIEI-----VLKSNMKDYRIIPVK----- 88
QY 61 SQLSSTTSHISPKDAFLGLGIIPGYAALPNWQFSQFVKDLTKCVAMLLTYCGPVLDF 120
Db 89 -----PFKSCFL-IGLI-----LILVIDLIY-----LLF 111
QY 121 VLYHLNPKSS-----ILEDYFHEFLNIWSFRNFIAPITEEIFYTSMLTTYLNLIHPHSQ 176
Db 112 IPGKLIIPHYSTSVGFMEFFSAFL-----ITGIAAPIPEEMVFRGILMRYF-----E 159
QY 177 LSYQQLFW--QPSLFFGLAHAAHAYEQLEGSMITVSILLTTCFOILYTTTLFGGLTKFVF 234
Db 160 KOYGILFGIITPILFSLVH-----LPNGELKGENLL-----LLGGSAGIYAVT 207
QY 235 VRTGGNLMWCCIIILHALCNIIMGFPGPSRLNLHFTV-----VDKK-----AGRISKLVSI 282
Db 208 AWTFSIWASAILHMLWNINGLLNITQDDHGVQYIILETKNVLITGDDYGMTSLLSI 267
QY 283 WNKCYFALLVLGLIS 297
Db 268 CS--YIAVIIVMIVT 280

	TELEPHONE: (781)893-5007	
	TELEFAX: (781)893-8277	
	INFORMATION FOR SEQ ID NO: 5459:	
	SEQUENCE CHARACTERISTICS:	
	LENGTH: 424 amino acids	
	TYPED: amino acid	
	TOPOLOGY: linear	
	MOLECULE TYPE: protein	
	HYPOTHETICAL: YES	
	ORIGINAL SOURCE:	
	ORGANISM: Enterococcus faecium	
	FEATURE:	
	NAME/KEY: misc_feature	
	LOCATION: (B) LOCATION 1...424	
	SEQUENCE DESCRIPTION: SEQ ID NO: 5459:	
	US-09-107-532A-5459	
	Query Match	5.8%; Score 96.5; DB 2; Length 424;
	Best Local Similarity	19.5%; Pred. No. 0.072;
	Matches	74; Conservative
		54; Mismatches 96; Indels 155; Gaps 22;
QY	7 FLVLLYSISVPLPYATSQPEGSKRDNPRTKSRMQKLTIIMI-	-----SNLFLV 56
DB	: :	: :::
	91 FALILYLLEPVI-	-----KRLSKHLSRNLSVIIIVYVILLFLGLGSIWLI 135
QY	57 PFIQSOLSTTSHI-	-----SFKDAFLGLGIIPGYAA-LPNPW 93
DB	:	: :::
	136 PFLEEQAQLTLSSLPDLFDQESLRQFLEKTPFADSFNQFFASIDDVTSDIAGFIGNYW 195	
QY	94 QP-SQFVKDLTKCV-AMLLTLVCGPVDLVLYHLNPKSILEDFVHEFLNIW--SFRNF 149	
DB	: :	: :::
	196 ESGAQRIISIFVTVAITFLTGPVAVPFL--LRDP----	-OKFYQSVALIIVPPAPR-- 246
QY	150 IPAPIITEEIFYTSMLLTTVLNLIPHSQLSYQQ-	-----FWQPSLFFGL 192
DB	: :	: :::
	247 -----TDKNL---	-TKIANQQLGSFLKGQIIASFILGAVYWCFLIGL 287
QY	193 AHAHHAYEQLEGSMTVTSILLTCFQIL--YTTLFGGL	
DB	: :	: :::
	288 EFA-----SVLAISAGLLCIIPYGPIAFPPGLIIAFQDSTFMVKEVIV----	333
QY	240 NLWCCI-I LH--ALCNIMGFPGPSBLNLH-FVVDDKKAGRISKLSYNKCYFALLVLG 294	
DB	: :	: :::
	334 --WFVQLLHGDIIVPRVMG----DRLQIHPTIL-----	-IVLLVMG 369
QY	295 LLSLKDTLQTLCVTPGYRI 313	
DB	: :	: :::
	370 --DLMGIVGVFGPIYTL 386	
	RESULT 11	
	US-09-058-389A-2	
	; Sequence 2, Application US/09058389A	
	; Patent No. 6130065	
	; GENERAL INFORMATION:	
	; APPLICANT: Belt, Judith A.	
	; APPLICANT: Crawford, Charles R.	
	; APPLICANT: Patel, Diyen	
	; TITLE OF INVENTION: A NITROBENZYL MERCAPTOPYRIMIDINE	
	; TITLE OF INVENTION: (NEWPRI)-INSENSITIVE, EQUILIBRATIVE, NUCLEOSIDE TRANSPORT	
	; TITLE OF INVENTION: PROTEIN, NUCLEIC ACIDS ENCODING THE SAME AND METHODS OF	
	; TITLE OF INVENTION: USE	
	; NUMBER OF SEQUENCES: 22	
	; CORRESPONDENCE ADDRESS:	
	; ADDRESSEE: David A. Jackson, Esq.	
	; STREET: 411 Hackensack Ave, Continental Plaza, 4th	
	; STREET: Floor	
	; CITY: Hackensack	
	; STATE: New Jersey	
	; COUNTRY: USA	
	; ZIP: 07601	
	; COMPUTER READABLE FORM:	
	; MEDIUM TYPE: Floppy disk	

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;
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/058,389A
; FILING DATE: April 9, 1998
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 1340-1-013N
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-487-5800
; TELEFAX: 201-343-1684
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 456 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; DESCRIPTION: hENT2
; HYPOTHETICAL: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; US-09-058-389A-2

Query Match 5.8%; Score 96.5; DB 2; Length 456;
Best Local Similarity 23.3%; Pred. No. 0.08;
Matches 78; Conservative 43; Mismatches 129; Indels 85; Gaps 17;

QY 35 PRTIKSRMQLTLMISNLFV-----PFLQSLSTTSHISFKDAFLG-----LG 80
Db 94 PETVRILGSLAILLFAALVKVDMSPGPFITMASVCFINSFSAVLQSLFGQLG 153
QY 81 IIP-----GYAALPNPWFQSFVKD-----LTKCVAMLLTLYCG--- 115
Db 154 TMSPTSTVTLFSGQGLAGIFAALMLLSMASGVDAETSAFGYFITPCVGLMSIVCYLSL 213
QY 116 PVLDVLYHLNPKSSI-LEDFYHEFLNWSFRNFIAPITEEIFYTSMLLTLYNL--I 172
Db 214 PHLKFARYYLANKSQAQAQAELETAKELQSDENGI--PSSPQ-----KVALTLDLDEKE 267
QY 173 PHSQLSYQQLFWQPSLFFGLAHAAHAYEQLQEGSMTTV--SILLTT-CFOILYT---TLF 226
Db 268 PESEPDPEPKPKPSVF-----TFQKIWLTAALCLVLFVFTVLSVF 308
QY 227 GGLTKFVFRVTGGNLW-----CCIIHALCNIMGPPGSRNLNHTVVDKAGRIKSL 279
Db 309 PAITAMVTSTSPGKWSQFNPICCFLLF--NIMDWLGRS-LTSYFLWPDEDS-RLLPL 363
QY 280 VSIWNKCYFALLVLGLISLKDITLQTLVGTGPGYRIT 314
Db 364 LVCLRFVPLFVPLFMLCHVPQSRPLPFPQDAYFIT 398

RESULT 12
US-09-611-781-2
; Sequence 2, Application US/09611781
; Patent No. 6423829
; GENERAL INFORMATION:
; APPLICANT: Belt, Judith A.
; APPLICANT: Crawford, Charles R.
; APPLICANT: Patel, Divyen
; TITLE OF INVENTION: A NITROBENZYL MERCAPTOPURINE RIBOSIDE
; TITLE OF INVENTION: (NEMPR)-INSENSITIVE, EQUILIBRATIVE, NUCLEOSIDE TRANSPORT
; TITLE OF INVENTION: PROTEIN, NUCLEIC ACIDS ENCODING THE SAME AND METHODS OF
; TITLE OF INVENTION: USE
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David A. Jackson, Esq.
; STREET: 411 Hackensack Ave, Continental Plaza, 4th
```

```
;
; STREET: Floor
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/611,781
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/058,389
; FILING DATE: April 9, 1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 1340-1-013N
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-487-5800
; TELEFAX: 201-343-1684
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 456 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; DESCRIPTION: hENT2
; HYPOTHETICAL: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; US-09-611-781-2

Query Match 5.8%; Score 96.5; DB 2; Length 456;
Best Local Similarity 23.3%; Pred. No. 0.08;
Matches 78; Conservative 43; Mismatches 129; Indels 85; Gaps 17;

QY 35 PRTIKSRMQLTLMISNLFV-----PFLQSLSTTSHISFKDAFLG-----LG 80
Db 94 PETVRILGSLAILLFAALVKVDMSPGPFITMASVCFINSFSAVLQSLFGQLG 153
QY 81 IIP-----GYAALPNPWFQSFVKD-----LTKCVAMLLTLYCG--- 115
Db 154 TMSPTSTVTLFSGQGLAGIFAALMLLSMASGVDAETSAFGYFITPCVGLMSIVCYLSL 213
QY 116 PVLDVLYHLNPKSSI-LEDFYHEFLNWSFRNFIAPITEEIFYTSMLLTLYNL--I 172
Db 214 PHLKFARYYLANKSQAQAQAELETAKELQSDENGI--PSSPQ-----KVALTLDLDEKE 267
QY 173 PHSQLSYQQLFWQPSLFFGLAHAAHAYEQLQEGSMTTV--SILLTT-CFOILYT---TLF 226
Db 268 PESEPDPEPKPKPSVF-----TFQKIWLTAALCLVLFVFTVLSVF 308
QY 227 GGLTKFVFRVTGGNLW-----CCIIHALCNIMGPPGSRNLNHTVVDKAGRIKSL 279
Db 309 PAITAMVTSTSPGKWSQFNPICCFLLF--NIMDWLGRS-LTSYFLWPDEDS-RLLPL 363
QY 280 VSIWNKCYFALLVLGLISLKDITLQTLVGTGPGYRIT 314
Db 364 LVCLRFVPLFVPLFMLCHVPQSRPLPFPQDAYFIT 398

RESULT 13
US-09-949-016-7211
; Sequence 2111, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
```



```

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7211
; LENGTH: 457
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7211

Query Match          5.8%; Score 96.5; DB 2; Length 457;
Best Local Similarity 23.3%; Pred. No. 0.08;
Matches 78; Conservative 43; Mismatches 129; Indels 85; Gaps 17;

Qy 35 PRTKSRMOKLTIMLISNLFV-----PFLQSQLSSTTSHISFKDAFLG-----LG 80
Db 95 PETVRILGSLAALLLFAALTAALKVDMSPGPFSSITWASVCFINSFVAVLQSGSLFGQLG 154
Qy 81 IIP-----GYAALPNPWFQSFVKD-----LTKCVAMLLTYCG--- 115
Db 155 TMPSTYSTLFLSGQGLAGIFAALAMLLSMASGVDAETSAIGYFITPCVGIILMSVYLSL 214
Qy 116 PVLPVLYHLNPKSSI-LEDFYHEFLNWSFRNFIAPITEEIEFYTSMLTTVNLN--I 172
Db 215 PHLPARYLLANKSQAQAELETQKAEILQSDENGI--PSPFQ-----KVALTLDLDEKE 268
Qy 173 PHSLSYQQLFWQPSLFFGLAHAYHQLQEGSMTTV--SILLTT-CFQILYT---TLF 226
Db 269 PESEPDQKPKPSVF-----TFVQKILWLTALCLVLVFTVLSVF 309
Qy 227 GGLTKFVFRVTRGNLW-----CCILHALCINMGFPGRSLNLFHTVVDKKAGRISKL 279
Db 310 PAITAMVTSSTSPGKWSQFNFNPICFLLF--NIMDWLGRS-LTSYFLWPDDEDS-RLDPL 364
Qy 280 VSIWKKCVFALLVLGLISLKTQLTQTVGTPGVRIT 314
Db 365 LVCLRFVLPVLMFLCHVPQGRRLPILFPQDAYFIT 399

RESULT 14
US-09-170-496D-36
; Sequence 36, Application US/09170496D
; Patent No. 6555339
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/09/170,496D
; CURRENT FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 36
; LENGTH: 331
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-170-496D-36

Query Match          5.8%; Score 96; DB 2; Length 331;
Best Local Similarity 24.3%; Pred. No. 0.058;
Matches 37; Conservative 31; Mismatches 36; Indels 48; Gaps 9;

Qy 7 FLVLLYISIS-YVLPYATSQPEGSKRDNPRTIKSRMOKLTIMLISNLF-----VPFL 59
Db 196 FLIPLFIMIGCYLVIHLLHGRTSK-----LKPVKEXSIRIIITLLVQVLVCFMPF- 248
Qy 60 QSQLSSTTSHISFKDAFLGILPGYYAALPNPW-QFSQFVKDLTKCVAMLLTYCGPVL 118
Db 249 -----HICF--AFMLGTGENSY-----NPMGATTFMLNLSLTC-----L 281
Qy 119 DFVLYHLNPKSSILEDFYHEFLNWSFRNFI 150
Db 282 DVIDIYIIVS-----KOFQARVISVMLYRNYL 307

US-09-910-695-4
; Sequence 4, Application US/09910695
; Patent No. 6737252
; GENERAL INFORMATION:
; APPLICANT: Hedrick, Joseph A.
; APPLICANT: Vicari, Alain P.
; APPLICANT: Zlotnick, Albert
; TITLE OF INVENTION: Mammalian Chemokines; Receptors;
; Reagents; Uses
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DNAX Research Institute
; STREET: 901 California Avenue
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/910,695
; FILING DATE: 20-Jul-2001
; CLASSIFICATION: <unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/122,585
; FILING DATE: 24-JUL-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: Ching, Edwin P.
; REGISTRATION NUMBER: 34,090
; REFERENCE/DOCKET NUMBER: DX0757
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 852-9196
; TELEFAX: (650) 496-1200
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 331 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-910-695-4

Query Match          5.8%; Score 96; DB 2; Length 331;
Best Local Similarity 24.3%; Pred. No. 0.058;
Matches 37; Conservative 31; Mismatches 36; Indels 48; Gaps 9;

Qy 7 FLVLLYISIS-YVLPYATSQPEGSKRDNPRTIKSRMOKLTIMLISNLF-----VPFL 59
Db 196 FLIPLFIMIGCYLVIHLLHGRTSK-----LKPVKEXSIRIIITLLVQVLVCFMPF- 248
Qy 60 QSQLSSTTSHISFKDAFLGILPGYYAALPNPW-QFSQFVKDLTKCVAMLLTYCGPVL 118
Db 249 -----HICF--AFMLGTGENSY-----NPMGATTFMLNLSLTC-----L 281
Qy 119 DFVLYHLNPKSSILEDFYHEFLNWSFRNFI 150
Db 282 DVIDIYIIVS-----KOFQARVISVMLYRNYL 307

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Db 282 DVILYYVS-----KQFQARVISVWLYRNYL 307

Search completed: December 9, 2005, 03:03:10
Job time : 20.8672 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 9, 2005, 02:55:15 ; Search time 53.3203 Seconds
(without alignment)
2468.407 Million cell updates/sec

Title: US-09-165-460A-4

Perfect score: 1651

Sequence: 1 MLQSTFLVLLYISISVYLP.....ISLKDQLTLVGTGPGYRITL 315

Scoring table: BLOSUM62

Gapop 10.0 , -Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA Main:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pcp.*
- 2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pcp.*
- 3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pcp.*
- 4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pcp.*
- 5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pcp.*
- 6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1651	100.0	315	4	US-10-646-950-4
2	249	15.1	290	6	US-11-097-143-9897
3	233.5	14.1	329	3	US-09-294-455-4
4	229.5	13.9	329	3	US-09-294-455-2
5	229.5	13.9	329	4	US-10-287-226-298
6	205	12.4	225	5	US-10-820-474A-114
7	193	11.7	149	4	US-10-767-701-58734
8	138	8.4	119	4	US-10-038-854-169
9	123	7.5	100	4	US-10-425-114-54947
10	123	7.5	149	4	US-10-424-599-221383
11	112.5	6.8	263	5	US-10-501-282-760
12	109.5	6.6	739	4	US-10-724-972A-4033
13	105.5	6.4	235	5	US-10-617-320-2959
14	104.5	6.3	289	4	US-10-724-972A-6754
15	103.5	6.3	223	5	US-10-472-928-1806
16	102.5	6.2	1474	4	US-10-369-493-2356
17	102	6.2	482	5	US-10-732-923-23704
18	101.5	6.1	312	5	US-10-774-355A-2432
19	99.5	6.0	757	5	US-10-487-887-6
20	99.5	6.0	757	5	US-10-792-307-2
21	99	6.0	321	3	US-09-815-242-12347
22	99	6.0	321	3	US-09-815-242-12794
23	99	6.0	321	4	US-10-282-122A-44257
24	99	6.0	321	5	US-10-857-625-616
25	98	5.9	760	5	US-10-487-887-2
26	98	5.9	760	5	US-10-792-307-2
27	97.5	5.9	341	4	US-10-424-599-246293

28	97.5	5.9	351	5	US-10-732-923-1406	Sequence 1406, Ap
29	97	5.9	331	4	US-10-251-385-184	Sequence 184, App
30	97	5.9	483	4	US-10-282-122A-54427	Sequence 54427, A
31	97	5.9	595	5	US-10-739-930-9909	Sequence 9909, Ap
32	96.5	5.8	237	4	US-10-425-114-37646	Sequence 37646, A
33	96.5	5.8	253	4	US-10-425-115-206342	Sequence 206342, A
34	96.5	5.8	456	5	US-10-756-149-5775	Sequence 5775, Ap
35	96	5.8	331	3	US-09-826-508-16	Sequence 16, Appl
36	96	5.8	331	3	US-09-910-695-4	Sequence 4, Appli
37	96	5.8	331	4	US-10-251-385-36	Sequence 36, Appl
38	96	5.8	331	4	US-10-225-567A-253	Sequence 253, App
39	96	5.8	331	4	US-10-411-010-18	Sequence 18, Appl
40	96	5.8	331	4	US-10-804-289-4	Sequence 4, Appli
41	96	5.8	331	5	US-10-370-715B-476	Sequence 476, App
42	96	5.8	331	5	US-10-953-264-18	Sequence 18, Appl
43	96	5.8	333	5	US-10-737-450-34	Sequence 34, Appl
44	96	5.8	569	5	US-10-505-486-112	Sequence 112, App
45	95	5.8	577	4	US-10-369-493-19737	Sequence 19737, A

ALIGNMENTS

RESULT 1

US-10-646-950-4
; Sequence 4, Application US/10646950
; Publication No. US20040072296A1
; GENERAL INFORMATION:
; APPLICANT: Rine, Jasper
; APPLICANT: Boyartchuk, Victor L
; APPLICANT: Ashby, Matthew N
; TITLE OF INVENTION: AFC1 and RCE1: Isoprenylated CAAX Processing Enzymes
; FILE REFERENCE: B96-021-3
; CURRENT APPLICATION NUMBER: US/10/646,950
; PRIOR FILING DATE: 2003-08-21
; PRIOR APPLICATION NUMBER: 60/023,491
; PRIOR FILING DATE: 1996-08-07
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 315
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-646-950-4

Query Match		100.0%	Score 1651;	DB 4;	Length 315;
Best Local Similarity		100.0%	Pred. No. 2.3e-154;	Mismatches 0;	Indels 0;
Matches 315;		Conservative			
Qy	1	MLQSTFLVLLYISISVYLPYATSQPGSKRDNPRTIKSRMOKLTIMLSNLFVLPFLQ	60		
Db	1	MLQSTFLVLLYISISVYLPYATSQPGSKRDNPRTIKSRMOKLTIMLSNLFVLPFLQ	60		
Qy	61	SQLSSTTSHISFKDAFLGLIIPGYAALPNPWFQSVKDLTKCVAMLLTYLCPVLD	120		
Db	61	SQLSSTTSHISFKDAFLGLIIPGYAALPNPWFQSVKDLTKCVAMLLTYLCPVLD	120		
Qy	121	VLYHLLNPKSILEDFYHEFLNWSFRNFIAPITEEFYTSMLLTYYLNIPIHLSQSYQ	180		
Db	121	VLYHLLNPKSILEDFYHEFLNWSFRNFIAPITEEFYTSMLLTYYLNIPIHLSQSYQ	180		
Qy	181	QLFWPQSLFFGLAHAAHAYEQIQSGMTTTSILITTCFQILYVTLFGGLTKFVFVRTGN	240		
Db	181	QLFWPQSLFFGLAHAAHAYEQIQSGMTTTSILITTCFQILYVTLFGGLTKFVFVRTGN	240		
Qy	241	LMWCIIHALCNMGFPGPSRLNLHFTVVDKKAGRSKLSVSNWKYCFALLVLGLISLKD	300		
Db	241	LMWCIIHALCNMGFPGPSRLNLHFTVVDKKAGRSKLSVSNWKYCFALLVLGLISLKD	300		
Qy	301	TLQTLVGTGPGYRITL	315		
Db	301	TLQTLVGTGPGYRITL	315		

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RESULT 2
US-11-097-143-9897
; Sequence 9897, Application US/11097143
; Publication No. US2005020858A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: DROSOPHILA GENES.
; CURRENT FILING DATE: 2005-04-04
; PRIOR FILING DATE: 1999-10-05
; PRIOR FILING DATE: 1999-10-05
; PRIOR FILING DATE: 1999-10-19
; PRIOR FILING DATE: 1999-10-28
; PRIOR FILING DATE: 1999-11-12
; PRIOR FILING DATE: 1999-12-28
; PRIOR FILING DATE: 2000-01-12
; PRIOR FILING DATE: 2000-02-24
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9897
; LENGTH: 290
; TYPE: PRT
; ORGANISM: DROSOPHILA
US-11-097-143-9897

Query Match      15.1%; Score 249; DB 6; Length 290;
Best Local Similarity 29.1%; Pred. No. 6.6e-16;
Matches 75; Conservative 52; Mismatches 83; Indels 48; Gaps 14;

QY      8 LVLVYISIVLYATQSGKRDNPRTIKSRMOKLTIMLISNLF-LVPFLOQSSST 67
DB      25 LADVYGLYI---WSTKH---NRDHTTVKRFASVSMVLAAPFVVFSS--PELL 75

QY      68 SHISFKDAFLGLGIPGYAALPNWQFSQFVKDLTKCVAMLLTYLGGPVLDFVLYHLN 127
DB      76 SRVPF-PKLLGLR-LEGLMQAVIPY-----SLTVLLFLGPI-----FVN 113

QY      128 PKSILEDVYHEFLNIW--SF-----RNFIFAPITEIEFTSMLLTTYLNLIHPSQLSY 179
DB      114 MONESVRSYFD--LDYWRGSGSIWVRNHIAPLSEEFVFRACMMP---LILQSFSP 167

QY      180 QQLFWQPSLFFGLAHAYEQEGSMVTTSVILLTTCFOILYTLTFLGGTLTKFVFRGTG 239
DB      168 VAVFITP-LFFGVVHLHIAERLSGLVELTALLI-GLFPFIYTLTFLGFSAPLART-G 224

QY      240 NLWCCIIHALCNIIMGFP 257
DB      225 HVMAPILVHAFCHMGLP 242

RESULT 3
US-09-294-455-4
; Sequence 4, Application US/09294455
; Publication No. US20030013181A1
; GENERAL INFORMATION:
; APPLICANT: Choi, Yun-Jung
; APPLICANT: No. US20030013181A1, Anne K.
; APPLICANT: Martin, George A.
; APPLICANT: Bollag, Gideon
; TITLE OF INVENTION: No. US20030013181A1 Nucleic Acid and Polypeptides Related to a
; FILE REFERENCE: 1035-US
; CURRENT APPLICATION NUMBER: US/09/294,455
; EARLIER FILING DATE: 1999-04-19
; EARLIER FILING DATE: 1998-05-22
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Human RCE1
US-09-294-455-2

Query Match      13.9%; Score 229.5; DB 3; Length 329;
Best Local Similarity 30.6%; Pred. No. 6.5e-14;
Matches 83; Conservative 39; Mismatches 82; Indels 67; Gaps 15;

QY      11 LVISIVLYATQSGKRDNPRTIKSRMOKLTIMLISNLF-LVPFLOQSSST--- 66
DB      43 LSLACSYVGSLYWKSE--LPRDHPAVIKRRF--TSVLVSSSLPLCVLLWRELTGPG 98

QY      67 TSHISFKDAFLGLGIPGYAALPNWQFSQFVKDLTKCVAMLLT--LYCGPVLDFV--- 121
; FILE REFERENCE: 1035-US
; CURRENT APPLICATION NUMBER: US/09/294,455
; EARLIER FILING DATE: 1999-04-19
; EARLIER FILING DATE: 1998-05-22
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Mouse RCE1
US-09-294-455-4

; TITLE OF INVENTION: Farnesyl-Directed Endopeptidase
; FILE REFERENCE: 1035-US
; CURRENT APPLICATION NUMBER: US/09/294,455
; EARLIER FILING DATE: 1999-04-19
; EARLIER FILING DATE: 1998-05-22
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Mouse RCE1
US-09-294-455-4

Query Match      14.1%; Score 233.5; DB 3; Length 329;
Best Local Similarity 30.9%; Pred. No. 2.6e-14;
Matches 86; Conservative 41; Mismatches 80; Indels 71; Gaps 16;

QY      4 FSTFLVLLYISIVLYATQSGKRDNPRTIKSRMOKLTIMLISNLF-LVPFLOQ 62
DB      40 FSCF-----SLACSYVGSLYWKSE--LPRDHPAVIKRR--STSVLVSSSLPLCVLLWRE 91

QY      63 LSST---TSHISFKDAFLGLGIPGYAALPNWQFSQFVKDLTKCVAMLLT--LYCGPV 117
DB      92 LTGIQPGTSLTLM-GFRLEGIFP--AAL-----LALLLTWILFLGPL 131

QY      118 LDFV-----LYHLLNPKSSILEDYHEFLNIW-----FRNFIFAPITEIEF 159
DB      132 MQLSMDPCDCLTDGLKVLAPRS-----WARCLTDMRWLRNQVIAPLTEL 178

QY      160 YTSMLLTLYLNLIHPSQLSYQQLFWQPSLFFGLAHAYEQEGSMVTTSVILLTTCFQ 219
DB      179 FRACMLPM---LAPCTGLG-PAVFTCP-LFFGVAFHHIIIEQLRFRQSSVGSIFVSAFQ 233

QY      220 ILYTTLFGLGTLKRVFVRTGNCNLWCCIIHALCNIIMGFP 257
DB      234 FSVTAVFGAYTAFIFRT-GHLIGPVLCHSFCNYMGFP 270

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Db 99 TSLTLM-GPRLGIFPA--ALLP-----LLLTMLFLGFLMQLSMD 138
Qy 122 -----LYHLNPKSSILEDFYHEFLNWS-----FRNFIPAPITEEIFYTSMLLT 166
Db 139 PCDLADGLKVVLAPRS-----WARCLTDMRLNRQVIAPLTELVEFRACMLP 185
Qy 167 TYNLNIPHSQSYQOLFWQPSLFFGLAHAHAYEQLQSGMTTYSILLTTTCFOILYTTLF 226
Db 186 M---LAPCMGLG-PAVFTCP-LFFGVAFPHHIEQLRFRQSSVGNIFLSAAAFQSYTAVF 240
Qy 227 GGLTKFVVRTGGNLMCCIIHALCNINGFP 257
Db 241 GAYTAFIIRT-GHLIGPVLCHSFCNYMGFP 270

RESULT 5

US-10-287-226-298

; Sequence 298, Application US/10287226

; Publication No. US2004008675A1

GENERAL INFORMATION:

; APPLICANT: Agee, Michele L.,
; APPLICANT: Alsobrook, John P.,
; APPLICANT: Berghs, Constance,
; APPLICANT: Boldog, Ference,
; APPLICANT: Burgess, Catherine E.,
; APPLICANT: Chant, John S.,
; APPLICANT: Chaudhuri, Amitabha,
; APPLICANT: DiPippo, Vincent A.,
; APPLICANT: Edinger, Shlomit R.,
; APPLICANT: Eisen, Andrew,
; APPLICANT: Ellerman, Karen,
; APPLICANT: Gangolli, Esha A.,
; APPLICANT: Gorman, Linda,
; APPLICANT: Gerlach, Valerie,
; APPLICANT: Ji, Weizhen,
; APPLICANT: Kekuda, Ramesh,
; APPLICANT: Khramtsov, Nikolai,
; APPLICANT: Li, Li,
; APPLICANT: Malyankar, Uriel M.,
; APPLICANT: MacDougall, John R.,
; APPLICANT: Mezes, Peter S.,
; APPLICANT: Miller, Charles E.,
; APPLICANT: Millet, Isabelle,
; APPLICANT: Ooi, Chean Eng,
; APPLICANT: Ort, Tatiana,
; APPLICANT: Padigaru, Muralidhara,
; APPLICANT: Patturajan, Meera,
; APPLICANT: Rastelli, Luca,
; APPLICANT: Rieger, Daniel K.,
; APPLICANT: Rothenberg, Mark E.,
; APPLICANT: Shenoy, Suresh G.,
; APPLICANT: Spaderna, Steven K.,
; APPLICANT: Spytek, Kimberley A.,
; APPLICANT: Taupier, Jr., Raymond J.,
; APPLICANT: Vernet, Corine A.M.,
; APPLICANT: Zerhusen, Bryan D.,
; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-480C
; CURRENT APPLICATION NUMBER: US/10/287,226
; CURRENT FILING DATE: 2002-11-04
; PRIOR APPLICATION NUMBER: 60/334,421
; PRIOR FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 60/354,392
; PRIOR FILING DATE: 2002-02-04
; PRIOR APPLICATION NUMBER: 60/360,148
; PRIOR FILING DATE: 2002-02-27
; PRIOR APPLICATION NUMBER: 60/364,000
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/404,821
; PRIOR FILING DATE: 2002-08-20
; PRIOR APPLICATION NUMBER: 60/334,526
; PRIOR FILING DATE: 2001-11-30

; PRIOR APPLICATION NUMBER: 60/354,409
; PRIOR FILING DATE: 2002-02-04
; PRIOR APPLICATION NUMBER: 60/364,227
; PRIOR FILING DATE: 2002-03-13
; PRIOR APPLICATION NUMBER: 60/334,027
; PRIOR FILING DATE: 2001-11-28
; PRIOR APPLICATION NUMBER: 60/331,641
; PRIOR FILING DATE: 2001-11-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 673
; SOFTWARE: CuraSequid version 0.1
; SEQ ID NO 298
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-287-226-298

Query Match 13.9%; Score 229.5; DB 4; Length 329;
Best Local Similarity 30.6%; Pred. No. 6.5e-14;
Matches 83; Conservative 39; Mismatches 82; Indels 67; Gaps 15;

Qy 11 LYISISVVLPIYATSQEGSKRDNPTIKSRMOKLTIMLISNLF-LVPFLQSLSSST--- 66
Db 43 LSLACSYVGSLYWKSE--LPRDHPAVIKRRF--TSVLVSSLSPLCVLLWRELTIQPG 98
Qy 67 TSHISFKDAFLGLGIIPGYVAALPNWQFSQFVKDLTKCVAMLLT--LYCGPVLDFV--- 121
Db 99 TSLTLM-GPRLGIFPA--ALLP-----LLLTMLFLGFLMQLSMD 138
Qy 122 -----LYHLNPKSSILEDFYHEFLNWS-----FRNFIPAPITEEIFYTSMLLT 166
Db 139 PCDLADGLKVVLAPRS-----WARCLTDMRLNRQVIAPLTELVEFRACMLP 185
Qy 167 TYNLNIPHSQSYQOLFWQPSLFFGLAHAHAYEQLQSGMTTYSILLTTTCFOILYTTLF 226
Db 186 M---LAPCMGLG-PAVFTCP-LFFGVAFPHHIEQLRFRQSSVGNIFLSAAAFQSYTAVF 240
Qy 227 GGLTKFVVRTGGNLMCCIIHALCNINGFP 257
Db 241 GAYTAFIIRT-GHLIGPVLCHSFCNYMGFP 270

RESULT 6

US-10-820-474A-114

; Sequence 114, Application US/10820474A

; Publication No. US20050155089A1

GENERAL INFORMATION:

; APPLICANT: LAL, PREETI
; APPLICANT: TANG, Y. TOM
; APPLICANT: GORGONE, GINA A.
; APPLICANT: CORLEY, NEIL C.
; APPLICANT: GUEGLER, KARL J.
; APPLICANT: BAUGHN, MARIAH R.
; APPLICANT: AKERBLOM, INGRID E.
; APPLICANT: AU-YOUNG, JANICE
; APPLICANT: YUE, HENRY
; APPLICANT: PATTERSON, CHANDRA
; APPLICANT: REDDY, ROOPA
; APPLICANT: HILLMAN, JENNIFER L.
; APPLICANT: BANDMAN, OLGA
; TITLE OF INVENTION: SIGNAL PEPTIDE-CONTAINING MOLECULES
; FILE REFERENCE: 039386-1568
; CURRENT APPLICATION NUMBER: US/10/820,474A
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: 09/720,533
; PRIOR FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: PCT/US99/14484
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: 60/090,762
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/094,983
; PRIOR FILING DATE: 1998-07-31
; PRIOR APPLICATION NUMBER: 60/102,686

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; PRIOR FILING DATE: 1998-10-01
; NUMBER OF SEQ ID NOS: 269
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 114
; LENGTH: 225
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte Clone No: 2093492
US-10-820-474A-114

Query Match      12.4%; Score 205; DB 5; Length 225;
Best Local Similarity 31.8%; Pred. No. 1.1e-11;
Matches 63; Conservative 26; Mismatches 51; Indels 58; Gaps 10;

QY 80 GIIPGYAALPNWQFSQFVKDLTKVAMLLT--LYCGPVLDFV-----LYHLIN 127
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 7 GIPFA--ALLP-----LTLTTLFGLPMLQSLMDCPCDLADGLKVLA 47

QY 128 PKXSILEDVHEFLNIWS-----FRNPFAPITEEFYTSMLTTYLNLIPLHSQLSY 179
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 48 PRS-----WARCLDMRLNQVIAPLTEELVFRACMLPM---LAPCMGLG- 90

QY 180 QQLFWOPSLFFGLAHAAHAYEQLQEGSMITVTSILLTTCQILYTTTLFGGLTKFVFRTGS 239
   :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 91 PAVFTCP-UFFGVAHFHHIEQRQSSVGNIFLSAAAFQFSTAVFGAYTAPFLFRT-G 148

QY 240 NLWCCILHALCNINGFP 257
   :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 149 HLIQPVLCHSFCNYMGFP 166

RESULT 7
US-10-767-701-58734
; Sequence 58734, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 58734
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; OTHER INFORMATION: Clone ID: 6674580.pep
US-10-767-701-58734

Query Match      11.7%; Score 193; DB 4; Length 149;
Best Local Similarity 29.4%; Pred. No. 9.5e-11;
Matches 45; Conservative 30; Mismatches 58; Indels 20; Gaps 4;

QY 153 PITEEFYTSMLTTYLNLIPLHSQLSYQQLFWQPSLFFGLAHAAHAYE-OLQEGSMITVS 211
   ||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 2 PVSELVWRSLLVPLHV----LAFSGKHIFLTPLYFGIAHVHLLYFRITHPRVPFIL 57

QY 212 ILLTTCQILYTTTLFGGLTKFVFRTGNGNLWCCILHALCNINGFP----- 257
   :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 58 AVARSLFQFTVTSLFGFFAAAFVVRT-GNVVTCILAHAFCNMGLPRFYGRGVGAGVPI 116

QY 258 GPSRLNHLFTVDVKAGRISKLSVWKKCYFAL 290
   ||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 117 GPPDVDDKDDVDQKTAPAYHGKGIATVAYILI 149

RESULT 8
US-10-038-854-169
; Sequence 169, Application US/10038854
; Publication No. US20040022781A1
; GENERAL INFORMATION:
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Li, Li
; APPLICANT: Wolenc, Adam R
; APPLICANT: Vernet, Corine
; APPLICANT: Eisen, Andrew J
; APPLICANT: Liu, Xiaohong
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shimkets, Richard A
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spaderna, Steven K
; APPLICANT: Gorman, Linda
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Patturajan, Meera
; APPLICANT: Gusev, Vladimir Y
; APPLICANT: Gangolli, Esha A
; APPLICANT: Guo, Xiaojia S
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Rastelli, Luca
; APPLICANT: Casman, Stacie J
; APPLICANT: Boldog, Ferenc
; APPLICANT: Burgess, Catherine E
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Ellerman, Karen
; APPLICANT: Gunther, Erik
; APPLICANT: Smithson, Glennda
; APPLICANT: Millet, Isabelle
; APPLICANT: MacDougall, John R
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-230
; CURRENT APPLICATION NUMBER: US/10/038,854
; CURRENT FILING DATE: 2003-01-22
; PRIOR APPLICATION NUMBER: 60/258,928
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 60/259,415
; PRIOR FILING DATE: 2001-01-02
; PRIOR APPLICATION NUMBER: 60/259,785
; PRIOR FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 60/269,814
; PRIOR FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 60/279,832
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,833
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,863
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/283,889
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/284,447
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/286,683
; PRIOR FILING DATE: 2001-04-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 411
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 169
; LENGTH: 119
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-038-854-169

Query Match      8.4%; Score 138; DB 4; Length 119;
Best Local Similarity 31.6%; Pred. No. 1.9e-05;
Matches 36; Conservative 21; Mismatches 45; Indels 12; Gaps 2;

QY 150 IFAPITEEFYTSMLTTYLNLIPLHSQLSYQQLFWQP-----SLFFGLAHAAHAYEQL 202
   :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 8 LLAPLAEELFFRGILLTAL-----ERRKKRYTLFGPLLAIISSLIFFALLHLANALELL 62

QY 203 QEGSMITVSILLTTCQILYTTTLFGGLTKFVFRTGNGNLWCCILHALCNINGF 256
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Query Match 7.5%; Score 123; DB 4; Length 149;
Best Local Similarity 33.8%; Pred. No. 0.00078;
Matches 27; Conservative 14; Mismatches 37; Indels 2; Gaps 2;

US-10-724-972A-4033
; Sequence 4033, Application US/10724972A
; Publication No. US20040147734A1
; GENERAL INFORMATION:
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; TITLE OF INVENTION: NUCLEIC ACID AND A
; TITLE OF INVENTION: EPIDERMIDIS FOR D
; FILE REFERENCE: PATH03-16
; CURRENT APPLICATION NUMBER: US/10/724,

```
; CURRENT FILING DATE: 2003-12-01
; PRIOR APPLICATION NUMBER: 09/450,969
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: 09/134,001
; PRIOR FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 7544
; SEQ ID NO 4033
; LENGTH: 739
; TYPE: PRT
; ORGANISM: S.epidermidis
US-10-724-972A-4033

Query Match      6.6%; Score 109.5; DB 4; Length 739;
Best Local Similarity 24.2%; Pred. No. 0.13;
Matches 55; Conservative 33; Mismatches 76; Indels 63; Gaps 10;

QY 38 IKSRMQLTLMISNLFVLPFLOSQSSTT-----SHISPKDAFL-CLGII 82
Db 254 VPSAMRAISATIIILMPIHFRKSSIHVLSFIFVLMILLNPQPINHGFQSFSLSLFII 313
QY 83 PGVYAALPNWQFSQFVKDLTKCVAMLLTLYCGVLDVFLVHLLNPKSSILEDFYH--EF 140
Db 314 -----LAKPY-----ISALKPKLCLFIISF-----LAQLGSIVINTYHFNQF 350
QY 141 LNIWSPRNFIAP-----ITBEIFYTSMLLTYLNLPHSOLSYOQLFWQP 186
Db 351 QWIGLLSNFIVFPFYSILPSPVVIIFILHFRQHSFLLNTYINML-----FKIHDLV 404
QY 187 SLFFGLAHAAHAYEQLOGSMITVSVLLTTCFOILYTLFGGLTKFV 233
Db 405 QLFNLNLHLKWIYPKLNQYSL-LILIILTLIF--LVILVYRGFVTSV 448

RESULT 13
US-10-617-320-2959
; Sequence 2959, Application US/10617320
; Publication No. US20050136404A1
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 5206
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Walham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: <Unknown>
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: <Unknown>
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/617,320
; FILING DATE: 10-Jul-2003
; PRIOR APPLICATION NUMBER:
; APPLICATION NUMBER: US/09/107,433
; FILING DATE: 30-Jun-1998
; APPLICATION NUMBER: 60/ 085131
; FILING DATE: May 12, 1998
; APPLICATION NUMBER: 60/051553
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-011
```

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; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 2959:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 235 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Streptococcus pneumoniae
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (B) LOCATION 1...235
; SEQUENCE DESCRIPTION: SEQ ID NO: 2959:
US-10-617-320-2959

Query Match      6.4%; Score 105.5; DB 5; Length 235;
Best Local Similarity 21.3%; Pred. No. 0.075;
Matches 54; Conservative 35; Mismatches 85; Indels 79; Gaps 10;

QY 42 MOKLIMLISNLFVLPFLOSQSSTTSHISFKDAFLGLGIIPGYAALPNWQFSQFVKD 101
Db 13 MKKRAIQILLALLIFPKSTWFRVFNHLA-----KPYLPASREFFQILL 58
QY 102 LTKCVAMLLTLY-----CGP-----VLDFVLYHLLNPKSSILEDF-YHEFLNIWS--- 145
Db 59 MESGFLVLAIVLYLVFAGKKIFHFKWQRYFIYLLGYIISYMSDFLFSYFISLSNQIS 118
QY 146 -----FRNFI-----FAPITEBIFYTSMLLTYLNLPHSOLSYOQLFWQ--- 185
Db 119 LNETVEMGRQBFYPFLLIVCVFIAPIELIYRGVLMTFKNSP-----WYGDV 168
QY 186 --PSLFFGLAHAAHAYEQLOGSMITVSVLLTTCFOILYTLFGGLTKFVFTGGLNLC 243
Db 169 LLSAIFGYIH-----INPALTPLAFFIYAS--GGILALLYRMTKNLY 211

QY 244 CIILHALCNIMGF 256
Db 212 PILVHILNITAP 224

RESULT 14
US-10-724-972A-6754
; Sequence 6754, Application US/10724972A
; Publication No. US20040147734A1
; GENERAL INFORMATION:
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH03-16
; CURRENT APPLICATION NUMBER: US/10/724,972A
; CURRENT FILING DATE: 2003-12-01
; PRIOR APPLICATION NUMBER: 09/450,969
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: 09/134,001
; PRIOR FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 7544
; SEQ ID NO 6754
; LENGTH: 289
; TYPE: PRT
; ORGANISM: S.epidermidis
US-10-724-972A-6754

Query Match      6.3%; Score 104.5; DB 4; Length 289;
Best Local Similarity 21.0%; Pred. No. 0.12;
Matches 66; Conservative 50; Mismatches 94; Indels 105; Gaps 14;
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Job time : 55.3203 secs

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Qy 1 MLQSTFLVLYISISYVLPYATSQPEGSKEDNPRTIKSRWQKLTIMLISNLFVPLQ 60
Db 53 ILHALTYIVLSYFSVKWFIET-----VLKSNKDYRIIPVK----- 88
Qy 61 SOLSSTTSHISFKDAFLGLIIPGYAALPNPWFQSFVKDLTKCVAMLLTLYCGPVLD 120
Db 89 -----FFKSCFL-IGLI-----LILVIDLIY-----LLF 111
Qy 121 VLYHLNPKSS-----ILBDFVHEFLNWSFRNFIPAPITEIFYTSMLLTLYLNLI 176
Db 112 IPGKLIIPHYSTSGVCFMEMFSAFL-----ITGIAAPIFEBVFRGILMRYF-----E 159
Qy 177 LSYQQLFW--OPSLFFGLAHAYEQLQEGSMITVSILLTCTCFQILYTLTFFGGLT 234
Db 160 KOYGILFGIIIPSLFSLVH-----LFNGELKGENLL-----LLIGSGIAGIMYAVT 207
Qy 235 VRTGNLWCCILHALCNMGFPGPSRLNLHFTV-----VDKK-----AGRISKLVSI 282
Db 208 AWTNSIWASAILHMLWNINGLLNITTTODDHGWYQVILETKNVLITGGDYGMTSLLSI 267
Qy 283 WNKCYPALLVLGLIS 297
Db 268 CS--YIAVIIVMIVT 280
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RESULT 15
US-10-472-928-1806
; Sequence 1806, Application US/10472928
; Publication No. US20050020813A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON Spa
; APPLICANT: THE INSTITUTE FOR GENOMIC RESEARCH
; TITLE OF INVENTION: STREPTOCOCCUS PNEUMONIAE PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE: P026926W0
; CURRENT APPLICATION NUMBER: US/10/472,928
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: GB-0107658.7
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 4979
; SOFTWARE: SeqWin99, version 1.03
; SEQ ID NO 1806
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
; FEATURE:
; OTHER INFORMATION: conserved hypothetical protein
; OTHER INFORMATION: Cellular location: membrane
; OTHER INFORMATION: Similar to strain R6 sequence 15902870 (e-126)
US-10-472-928-1806
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Query Match 6.3%; Score 103.5; DB 5; Length 223;
Best Local Similarity 23.3%; Pred. No. 0.11;
Matches 48; Conservative 26; Mismatches 67; Indels 65; Gaps 9;

Qy 89 LPNPWFQSFVKDLTKCVAMLLTY-----CGP-----VLDVLYHLNPKSSILEDP- 136
Db 34 LPASREFTQILLMESGVFLAVIYLLVPAGKFIHFHKWQLRYFIYLLGYIISYMSDFL 93
Qy 137 VHEFLNWS-----FRNFI-----FAPITEIFYTSMLLTLYLNLI 175
Db 94 FSYFISLSNQISLNETVEMGRQEPFPLIVVCPIAIEELIYRGVLMITFFKNSP-- 151
Qy 176 QLSYQQLFWQ-----PSLFFGLAHAYEQLQEGSMITVSILLTCTCFQILYTLTFFGGLT 230
Db 152 -----WYGDVLSAIIFGYIH-----INFALTPAFFIVAS--GGLI 186
Qy 231 KVFVVRTGGLWCCILHALCNMGF 256
Db 187 LALLYRMTKNLYYPILVILNITAF 212
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Search completed: December 9, 2005, 03:13:59

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 9, 2005, 03:02:35 ; Search time 6.15234 Seconds
(without alignments)
285.923 Million cell updates/sec

Title: US-09-165-460A-4
Perfect score: 1651
Sequence: 1 MLQSFTEVLVLLYSISYVLP.....ISLKDITQLTVGTPGYRITL 315

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 32527 seqs, 5584426 residues

Total number of hits satisfying chosen parameters: 32527

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA New:
1: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB_PEP.*
2: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB_PEP.*
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6: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB_PEP.*
7: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB_PEP.*
8: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB_PEP.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	89.5	5.4	203	US-10-980-388-79	Sequence 79, Appl
2	85	5.1	1804	US-10-513-786-2	Sequence 2, Appl
3	85	5.1	3704	US-10-513-786-1	Sequence 1, Appl
4	82	5.0	389	US-11-060-008-11	Sequence 11, Appl
5	81.5	4.9	529	US-10-821-234-1168	Sequence 1168, Ap
6	80	4.8	580	US-10-821-234-1309	Sequence 1309, Ap
7	78.5	4.8	334	US-10-793-626-230	Sequence 230, App
8	78.5	4.8	1125	US-10-821-234-1444	Sequence 1444, Ap
9	78	4.7	162	US-11-069-642-6	Sequence 6, Appl
10	78	4.7	411	US-10-467-657-8252	Sequence 8252, Ap
11	77	4.7	113	US-10-821-234-1478	Sequence 1478, Ap
12	77	4.7	453	US-10-793-626-1516	Sequence 1516, Ap
13	76	4.6	295	US-10-793-626-654	Sequence 654, App
14	76	4.6	554	US-11-000-463-240	Sequence 240, App
15	75	4.5	459	US-11-186-284-12	Sequence 12, Appl
16	75	4.5	534	US-11-075-185-17	Sequence 17, Appl
17	75	4.5	633	US-11-119-683-3	Sequence 3, Appl
18	73.5	4.5	324	US-10-793-626-1262	Sequence 1262, Ap
19	73.5	4.5	397	US-11-060-008-8	Sequence 8, Appl
20	73.5	4.5	413	US-11-060-008-9	Sequence 9, Appl
21	73.5	4.5	669	US-11-119-683-2	Sequence 2, Appl
22	73	4.4	628	US-11-074-176-244	Sequence 244, App
23	73	4.4	738	US-11-147-047-48	Sequence 48, Appl
24	73	4.4	1070	US-11-147-047-49	Sequence 49, Appl
25	72.5	4.4	538	US-11-119-683-1	Sequence 1, Appl

Sequence 1090, Ap
Sequence 13, Appl
Sequence 238, App
Sequence 11, Appl
Sequence 44, Appl
Sequence 484, App
Sequence 1534, Ap
Sequence 1558, Ap
Sequence 320, App
Sequence 68, Appl
Sequence 288, App
Sequence 46, Appl
Sequence 7578, Ap
Sequence 6260, Ap
Sequence 1523, Ap
Sequence 8, Appl
Sequence 320, App
Sequence 1236, Ap
Sequence 168, App
Sequence 576, App
Sequence 8482, Ap

ALIGNMENTS

RESULT 1
US-10-980-388-79
; Sequence 79, Application US/10980388
; Publication No. US20050255490A1
; GENERAL INFORMATION:
; APPLICANT: Vogeli, Gabriel
; APPLICANT: Parodi, Luis A.
; APPLICANT: Hiebsch, Ronald R.
; APPLICANT: Lind, Peter
; APPLICANT: Kaytes, Paul S.
; APPLICANT: Ruff, Valerie
; APPLICANT: Huff, Rita M.
; APPLICANT: Wood, Linda S.
; TITLE OF INVENTION: Novel G Protein-Coupled Receptors Cross-Reference To Related Appl

; FILE REFERENCE: 00325-US1
; CURRENT APPLICATION NUMBER: US/10/980,388
; CURRENT FILING DATE: 2004-11-02
; PRIOR APPLICATION NUMBER: US/09/791,932
; PRIOR FILING DATE: 2001-02-23
; PRIOR APPLICATION NUMBER: 60/184,305
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/184,304
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/184,303
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/184,397
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/184,247
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/188,880
; PRIOR FILING DATE: 2000-03-13
; PRIOR APPLICATION NUMBER: 60/217,369
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/217,370
; PRIOR FILING DATE: 2000-07-11
; PRIOR APPLICATION NUMBER: 60/218,492
; PRIOR FILING DATE: 2000-07-20
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 184
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 79
; LENGTH: 203
; TYPE: PPT
; ORGANISM: Homo sapiens
US-10-980-388-79

Query Match 5.4%; Score 89.5; DB 6; Length 203;
Best Local Similarity 19.4%; Pred. No. 0.048;

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Matches 51; Conservative 36; Mismatches 91; Indels 85; Gaps 9;
QY 41 RMOKLIMILSNLFLVPPFLOSLSSTSHSPKDAFLGLIIPGYAAALPNWQFSQFVK 100
Db 13 RKQKFRIMFL-----TCVSPTVVLELSY-----PMQ-----39
QY 101 DLTKCVAMLLTYCGPVLDPVLVHLNPKSSILEDYHEFLNIWSRNFIFAPITEIEFY 160
Db 40 -----LILLYS---LFVLTLKRTSNVNLDELKTE--NVCKYVKYVKMYFSYFK 87
QY 161 TSMLLTYNLNLIPLHSQLSYQQLFWQPSLFFGLAHAAHAYEQLEGSMITTVSILLTTCFOI 220
Db 88 SFILYITHTH-----THTH-----TWRSLLTTQYKI 113
QY 221 LYTTLFGGLTKFVFTGTGNLWCCIIHALCNIMGFGPSRLNLHFTVVDKXAGR-----I 276
Db 114 IF--LRNIVPKYCFIPKSNLWLFYGFHQAMSLTNFANKGTQGMKYLNTNKKPNSMYVI 171
QY 277 SKLVSIWNKCYFALLVGLISLK 299
Db 172 GKIKSSVNSIHELTSISALLSLK 194

RESULT 2
US-10-513-786-2
; Sequence 2, Application US/10513786
; Publication No. US20050260589A1
; GENERAL INFORMATION:
; APPLICANT: Bio Control Institute Limited
; APPLICANT: AGATA, Norio
; TITLE OF INVENTION: A cereulide synthetase, a gene thereof, and a detection method fo
; FILE REFERENCE: P0202401
; CURRENT APPLICATION NUMBER: US/10/513,786
; PRIOR FILING DATE: 2004-11-16
; PRIOR FILING DATE: 2002-05-17
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 2
; LENGTH: 1804
; TYPE: PRT
; ORGANISM: Bacillus cereus
US-10-513-786-2

Query Match 5.1%; Score 85; DB 6; Length 1804;
Best Local Similarity 22.5%; Pred. No. 1.8;
Matches 40; Conservative 23; Mismatches 65; Indels 50; Gaps 8;

QY 93 WQFSQFVKDLTKCV-----AMLLTYCGPVLDPVLVHLNPKSSILEDYF--YH 138
Db 1049 WVLHEIVKERQDCLYITSSARTLLPGMTISAYCS-----ANRFVENFAYYQ 1095
QY 139 EFLNI-----WSPRNFIFAPITEIEFYTSMLLTYYNLNLIPLHSQLSYQQLFW---OPSL 188
Db 1096 RSNQVNSYCFWSFWNEI--GMGTNLLIKNALIAKGFQILDQKGIYSLLAGLKGNPNV 1153
QY 189 FFGLAH-----AHAYEQLEGSMITTVSI-----LTTTCFOILYTTLFGGLTKFV 235
Db 1154 FVGINHEKEEMAHLIGTEEQETQTLTIYTPVHLHILEEVFSILNREFFGLEKEIVI 1211

RESULT 3
US-10-513-786-1
; Sequence 1, Application US/10513786
; Publication No. US20050260589A1
; GENERAL INFORMATION:
; APPLICANT: Bio Control Institute Limited
; APPLICANT: AGATA, Norio
; TITLE OF INVENTION: A cereulide synthetase, a gene thereof, and a detection method fo
; FILE REFERENCE: P0202401
; CURRENT APPLICATION NUMBER: US/10/513,786
; PRIOR FILING DATE: 2004-11-16
; PRIOR FILING DATE: 2002-05-17
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 3704
; TYPE: PRT
; ORGANISM: Bacillus cereus
US-10-513-786-1

Query Match 5.1%; Score 85; DB 6; Length 3704;
Best Local Similarity 22.5%; Pred. No. 4.2;
Matches 40; Conservative 23; Mismatches 65; Indels 50; Gaps 8;

QY 93 WQFSQFVKDLTKCV-----AMLLTYCGPVLDPVLVHLNPKSSILEDYF--YH 138
Db 1049 WVLHEIVKERQDCLYITSSARTLLPGMTISAYCS-----ANRFVENFAYYQ 1095
QY 139 EFLNI-----WSPRNFIFAPITEIEFYTSMLLTYYNLNLIPLHSQLSYQQLFW---OPSL 188
Db 1096 RSNQVNSYCFWSFWNEI--GMGTNLLIKNALIAKGFQILDQKGIYSLLAGLKGNPNV 1153
QY 189 FFGLAH-----AHAYEQLEGSMITTVSI-----LTTTCFOILYTTLFGGLTKFV 235
Db 1154 FVGINHEKEEMAHLIGTEEQETQTLTIYTPVHLHILEEVFSILNREFFGLEKEIVI 1211

RESULT 4
US-11-060-008-11
; Sequence 11, Application US/11060008
; Publication No. US20050257290A1
; GENERAL INFORMATION:
; APPLICANT: Kloeck, Andrew P.
; APPLICANT: Williams, Deryck J.
; APPLICANT: McLaird, Merry B.
; APPLICANT: Bradley, John D.
; APPLICANT: Davila-Aponte, Jennifer A.
; APPLICANT: Xu, Siqun
; APPLICANT: Frevert, Anita M.
; TITLE OF INVENTION: NEMATODE PATTY ACID DESATURASE-LIKE
; FILE REFERENCE: 12557-007001
; CURRENT APPLICATION NUMBER: US/11/060,008
; CURRENT FILING DATE: 2005-02-17
; PRIOR FILING DATE: US/10/243,468
; PRIOR FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: US 60/322,003
; PRIOR FILING DATE: 2001-09-13
; NUMBER OF SEQ ID NOS: 32
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 389
; TYPE: PRT
; ORGANISM: Heterodera glycines
US-11-060-008-11

Query Match 5.0%; Score 82; DB 7; Length 389;
Best Local Similarity 19.7%; Pred. No. 0.56;
Matches 37; Conservative 30; Mismatches 63; Indels 58; Gaps 7;

QY 53 LFLVPPFLOSLS-----STTSHIS-----FKDAFLGLIIPGYAALP-----NP 92
Db 132 LLMPVFPWQKSHRHHQFTSHVDKDGHPWLEDDYEGGGWLRKHFAKIPLSGLIRWNP 191
QY 93 -----WQFSQFVKDLTKCVAMLLTYCGPVLDPVLVHLNPKSSILEDYFHE 139
Db 192 IYTVAGLPDGSHPWPSRFLPSNNTFRKCLISSSLCLITSWAIFVLLDHSF-----242
QY 140 FLNWSRNFIFAPITEIEFYTSMLLTYYNLNLIPLHSQLSYQQLFW-----QPSLF 189
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QY 140 FLNWSRNFIFAPITEIEFYTSMLLTYYNLNLIPLHSQLSYQQLFW-----QPSLF 189
```

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Db      243  ----WAFLKYYVPLMFGYW--MVIIITYLQHQBSEIVYBEGNWA FVKGLQTYDREY 296
Qy      190  FGLAHAAH 197
          ||: || |
Db      297  FGIDHAMH 304

RESULT 5
US-10-821-234-1168
; Sequence 1168, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Presclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt seq_genes Version 1.0
; SEQ ID NO 1168
; LENGTH: 529
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1168

```

Query Match	4.9%;	Score 81.5;	DB 6;	Length 529;	
Best Local Similarity	21.1%;	Pred. No. 0.9;			
Matches	77;	Conservative	52;	Mismatches 123;	Indels 113; Gaps 21;
Qy	5	STPLVLVLVISYVLPVATSQ-PEGSKR-----DNPTIK--SRMOK-----	44		
Db	166	SOYIVALVFATYILKPLFPCTPVEEAAKVLACLVLLTAVNCYSVKAATFVQDAFAA	225		
Qy	45	--LTMILISNLFVPFLOQSSTTSHISPKDAFLGLG-IIPGYVAAL--PNPWFQSFQV	99		
Db	226	KLALALIIILGFVQIGKGVSDNPDPFSEFGTKLDVGNIVLALYSGLFAYGGWNYLNFV	285		
Qy	100	KD-----LTKCVAMLLTLYCGPVLDFVLVHLN-----PKSSILEDF--YH	138		
Db	286	TEEMINPYRNPLAIILISL-----PIVTLV-YVLTNLAYFTTILSTEQMLSEAVADFGNYH	341		
Qy	139	EFLNIWSPRNFI----FAPITEEIFYTSML-----LTYNLNLIPHSQLSYQQLFWQ	185		
Db	342	LGVMSWIIPVVLGSCFGSVNGSLFTSSRLFPVGSREGHLPISILSMI-HPQL-----	392		
Qy	186	PSLFFGLAAHAYEQLQEGSMITVSILLTTC-FQILYT---TLFEGGLTKFVFVRTGGL	241		
Db	393	-----LTPVPSLVFTCVMTLLYAFSKDIFSVINFFSFPN-----	426		
Qy	242	WCCIIILHALCNIM-----GPPGSPRLNLHFTVVDKKAGRISKLVSIWN---KC--YFAL	290		
Db	427	WLCVALAIIIGNIWLHRKPELERPIKYNLALVPFILLACLFLIAVSFWKTPVECGIGFTI	486		
Qy	291	LVVLGL	295		
Db	487	ILSGL	491		

```

RESULT 6
US-10-821-234-1309
; Sequence 1309, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tartg, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia

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[illegible]

```

RESULT 7
US-10-793-626-230
; Sequence 230, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 230
; LENGTH: 334
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-230

```

	Query Match	4.8%	Score 78.5;	DB 6;	Length 334;
	Best Local Similarity	20.9%;	Pred. No. 1;		
	Matches 48;	Conservative 42;	Mismatches 93;	Indels 47;	Gaps 11;
Qy	106	VAMLLTLYCG-PVLDVFLVYHL--LNPKSSILEDYHEFLNINWFRNFIAPITEEIFYT	161		
Db	22	ILALLFIVGPELITGVYAIQAKINKEKVLFSDLFFAFKKGKAKSVILALIITLVLFIV	81		
Qy	162	SMLLTLYNLIPHSQSQYQQLFWQPSLFFGLAHAAHAYEQQLQSGMTTVTSILL	214		
Db	82	IVLIIVLNLKLYSLALS-----PILIGLQQSISGYDN-PMGILITIQIVLLLTITGI	132		
Qy	215	-----TTCFQILYITLTF-----GGUTK-FVVRTGGNUNWC-----CIILHALCN	252		
Db	133	SSIEVWFVITFINNTAYTDEDSSRKVMSNLKEGFKIGKNGKKTWFKEFVIGLLISLAS	192		

Qy 253 IMGF--GPRINLHFT-VVDKKAGRIKLSI-WNKCYFALLVLGLIS 297
|: | | : | : |:| | | | | : | : | : | : | :
D6 193 IINKPLFGVQLTSSMSQTVAOTIIIRIVSVLRCLCVYLIFGIIN 242

RESULT 8

```

US-10-821-234-1444
; Sequence 1444, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_SEQ_genes Version 1.0
; SEQ ID NO 1444
; LENGTH: 1125
; TYPE: prt
; ORGANISM: Homo sapiens
US-10-821-234-1444

```

RESIN.T 9

```

RESUB: 3
US-11-069-642-6
; Sequence 6, Application US/11069642
; Publication No. US20050260626A1
; GENERAL INFORMATION:
; APPLICANT: LORENS, JAMES B.
; APPLICANT: PRAY, TODD R.
; APPLICANT: KINSELLA, TODD M.
; APPLICANT: BENNETT, MARK K.
; TITLE OF INVENTION: IN VIVO PRODUCTION OF CYCLIC PEPTIDES FOR
; TITLE OF INVENTION: INHIBITING PROTEIN-PROTEIN INTERACTION
; FILE REFERENCE: RIGL-022CIP3
; CURRENT APPLICATION NUMBER: US/11/069,642
; CURRENT FILING DATE: 2005-02-28
; PRIOR APPLICATION NUMBER: 10/232,758
; PRIOR FILING DATE: 2002-08-30

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; PRIOR APPLICATION NUMBER: 10/422,536
; PRIOR FILING DATE: 2003-04-23
; PRIOR APPLICATION NUMBER: 09/800,770
; PRIOR FILING DATE: 2001-03-06
; PRIOR APPLICATION NUMBER: 60/187,130
; PRIOR FILING DATE: 2000-03-06
; NUMBER OF SEQ ID NOS: 168
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 162
; TYPE: Prt
; ORGANISM: Giardia theta
US-11-069-642-6

```

RESULT 10

```

US-10-467-657-8252
; Sequence 8252, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 8252
; LENGTH: 411
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-8252

```

```

Db 140 RVAALIPGSLVSLADRMWSEVFVITSLFMLPGLMLTFLAHE-----PVL 186
Qy 214 LTTCPQIILYTLFGGLTFKVFVTRTGNLWCCIIILHALCNMG-----FPGPSRLNLHFT 267
Db 187 PPSVPKTLKQTVVEPFKEF-FMRKGIASAVCVLLFIPLYKLGDNSMATALATPFVYLDMGFS 245
Qy 268 VVDKAGRISKLVSW-----NKCVF-----ALLVLGLISLK----- 299
Db 246 KTD--IGLIKAGLWPAVAGILGGVWMLKIGVKNKALWLFAGVQAITVLGFVWLAGFGH 303
Qy 300 -DTLQTLVGTGGRITL 315
Db 304 FDT-----VGT-GERLML 315

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RESULT 11

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US-10-821-234-1478
; Sequence 1478, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pc_seq_genes Version 1.0
; SEQ ID NO 1478
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1478

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Query Match 4.7%; Score 77; DB 6; Length 113;
Best Local Similarity 23.2%; Pred. No. 0.39;
Matches 32; Conservative 21; Mismatches 47; Indels 38; Gaps 6;

Qy 42 MQLTIMLISNLFVPELOSLSSTTSHSFKDAFLGLGIIPGY---YAALPNWQFSQ 97
Db 1 MSASVSVISR-----FLEEYLSSTPQRLKLDVLLVILTGALQFGYCLLVGTFFPNS 55

Qy 98 FVKDLTKCVAMLLTYLTCGPVLDVLYHLINPKKSSILEDYFHEFLNI---WSFRNFIFAPI 154
Db 56 FLSGFISCVGSPILAVC-----LRQINPONKA-----DFQGISPERAFADFLFA-- 100

Qy 155 TEEIFYTSMLTYLNL 172
Db 101 -----STILHLV 107

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RESULT 12

```

US-10-793-626-1516
; Sequence 1516, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUS3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1516
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Artificial Sequence

```

```

; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-1516

```

```

Query Match 4.7%; Score 77; DB 6; Length 453;
Best Local Similarity 21.6%; Pred. No. 2;
Matches 61; Conservative 38; Mismatches 94; Indels 90; Gaps 12;

Qy 62 QLSSTTHSHFKAFLGIGIIPGYAALPN-----PQFSQFVKDLTKCVAMLLTYLVC 115
Db 74 EISSRISKIYGLFTIGLYLVIGPFALPLATTSFIAFSPFISSGT--AQAALLPIF-- 129
Qy 116 PVLDVLYHLINPKSSILEDYFHEFLN-----IWSFRNFIFAPIITEIFY 160
Db 130 SILFFGVANLFSRKPDKILDIYIGKLPNPVLLIGIVVLAIFRPMGGISHAPVSAD-YS 188
Qy 161 TSMLLTYLNLIPHSQLSYQOLFQWPSLFFGLAHAAH-----AYEQLOEGSMT 208
Db 189 NSVLLKGFID-----GYNTLDALASLAFGIITVTIKKLGITNPNTIAKETLKSG-- 238
Qy 209 TVSILLTCTQIILYT--TLFG--GLTKFVVRTGNNLWCCIIILHALCNMGFPGPSRLNL 264
Db 239 TISII--AMGVITYTLALMGTMSLGRFKVSENGGIALAQIAQHYLGD----- 283
Qy 265 HFTVVDKKAGRISKLVSIWNKCYFALLVLGLISLKDITLQTLVG 307
Db 284 -----YGIILSLIIVACLKTAIG 303

```

RESULT 13

```

US-10-793-626-654
; Sequence 654, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUS3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 654
; LENGTH: 295
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-654

```

```

Query Match 4.6%; Score 76; DB 6; Length 295;
Best Local Similarity 19.8%; Pred. No. 1.5;
Matches 34; Conservative 44; Mismatches 70; Indels 24; Gaps 8;

Qy 149 FIFAPITEEIPYTSMLTYLNL-IPHSQLSYQO-----LFWQPSLFFGLAHAAHAYEQLO 203
Db 97 FVLSDFVPLVHVTDDLHIPPVNFDP--LSFAYVIFVIFWQ---VGFSAVNLTDGL- 148
Qy 204 EGSMTVTSIILTTCTQIILYTTLFGGLTKFVVRTGNNLWCCIIILHALCNMGFP-GPSRL 262
Db 149 DGLATGSIIGFAMYAVN-----SYMLDSFAGIFCLIMFALLGFLPYNLNPAKV 199
Qy 263 NLHFTVVDKKAGRISKLVSIWNKCYFALLVLGLISLKDITLQTLVGTGYRIT 314
Db 200 FMGDT-GSLALGGIFATISIMLNQELSLILIGFVVFVETLSVMQLQVASYKLT 250

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RESULT 14

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US-11-000-463-240
; Sequence 240, Application US/11000463

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Result No.	Score	Query Match	Length	DB	ID	Description	
1	2336	99.7	472	7	US-11-008-331-3	Sequence 3, Appli	
2	903	38.6	474	7	US-11-008-331-4	Sequence 4, Appli	
3	328	14.0	426	7	US-11-008-331-2	Sequence 2, Appli	
4	148.5	6.3	279	6	US-10-467-657-3232	Sequence 3232, Ap	
5	147.5	6.3	283	7	US-11-008-331-6	Sequence 6, Appli	
6	104	4.4	298	7	US-11-074-176-6	Sequence 6, Appli	
7	93	4.0	377	6	US-10-821-234-1436	Sequence 1436, Ap	
8	92	3.9	414	6	US-10-793-626-806	Sequence 806, App	
9	91	3.9	339	6	US-10-793-626-1694	Sequence 1694, Ap	
10	91	3.9	648	6	US-10-793-626-1080	Sequence 1080, Ap	
11	90	3.8	426	6	US-10-131-826A-218	Sequence 218, App	
12	88.5	3.8	215	7	US-11-008-331-5	Sequence 5, Appli	
13	86	3.7	941	6	US-10-131-826A-464	Sequence 464, App	
14	85	3.6	213	6	US-10-793-626-1096	Sequence 1096, Ap	
15	83	3.5	250	6	US-10-793-626-1124	Sequence 1124, Ap	
16	83	3.5	376	6	US-10-793-626-490	Sequence 490, App	
17	83	3.5	376	6	US-10-793-626-2260	Sequence 2260, Ap	
18	82	3.5	484	7	US-11-102-240-78	Sequence 78, Appl	
19	80.5	3.4	228	6	US-10-467-657-568	Sequence 568, App	
20	80.5	3.4	228	6	US-10-467-657-4838	Sequence 4838, Ap	
21	80.5	3.4	386	7	US-11-055-822-586	Sequence 586, App	
22	80.5	3.4	2644	6	US-10-770-726-45	Sequence 45, Appl	
23	79.5	3.4	364	6	US-10-793-626-2626	Sequence 2626, Ap	
24	79.5	3.4	817	7	US-11-012-762-2	Sequence 2, Appli	
25	78.5	3.4	387	6	US-10-793-626-3180	Sequence 3180, Ap	

```

QY 361 IIGFMLFNDLLTLECAMQVMSLSRTHYQADAYAKKGLGYKQNLCRALIDLQIKNLST 420
Db 361 IIGFMLFNDLLTLECAMQVMSLSRTHYQADAYAKKGLGYKQNLCRALIDLQIKNLST 420
QY 421 MNVDPLYSSYHSHPTLAERSTALDLYVSEKKKN 453
Db 421 MNVDPLYSSYHSHPTLAERSTALDLYVSEKKKN 453

RESULT 2
US-11-008-331-4
; Sequence 4, Application US/11008331
; Publication No. US20050244925A1
; GENERAL INFORMATION:
; APPLICANT: Genencor International, Inc.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms
; FILE REFERENCE: GC386-PCT
; CURRENT APPLICATION NUMBER: US/11/008,331
; CURRENT FILING DATE: 2004-12-08
; PRIOR APPLICATION NUMBER: EP9719637.2
; PRIOR FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 474
; TYPE: PRT
; ORGANISM: Schizocaccharomyces pombe
US-11-008-331-4

Query Match 38.6%; Score 903; DB 7; Length 474;
Best Local Similarity 40.4%; Pred. No. 2.4e-68;
Matches 184; Conservative 96; Mismatches 153; Indels 22; Gaps 6;

QY 4 LKTLDPHPNIPWKLIIISGFSIAQSPESLYTYQYOKLSETKLPPVLEIDEIDETHPKR 63
Db 37 LMHILDIPGPWIKVIAGFSIGKYAWDLYLRRQVPYLLREKPPAILAEHVDEKKYQAL 96
QY 64 NYSRAKAKSIFGDVNVLAQKLVFIKYDLFPKJWHNA-----VSLNAVLPVRFHMVSTVA 119
Db 97 SYARDKSWFSTIVSTFTLAVDLIIIKYDGLSYLWNITKPPWMDKL-AASSRSFSLSTSIT 155
QY 120 QSLCFLGLSSSLTLDPLSLYSYSHFVLEBKFGFNKLTVOLMTDMIKSLTAYAIKGGPI 179
Db 156 HSCVFPEGLTLFRLTQIPNLVSTFVIEBKFGFNKLTQIFVIDLLKSLGGLMSVV 215
QY 180 LYLFKLIFDKPPTDFLWYIMVFLVQVILAMTIPVFMFMFNKFTPLEDGELKKIESL 239
Db 216 VGVFVKILTQFGDNFMYAGVIVFGLIQLTIAPSLIMPLFYKFTPLENGSLRTQIEEL 275
QY 240 ADRVGPDLKIFVIDGSKRSSHSHNAYFTGLPFTSKRVLFDLTIVNSNSTDEITAVLAHEI 299
Db 276 AASINPFLKLYVIDASRRSTHSNAPFYGLPW-NKGIVLFDLTIVKNTPELIIAIGHEL 334
QY 300 GHQKQKH-IVMNIFSOHLHTFLIFSLFTSYRNTSFYNTFTGPFLEKSTGSGFVDPVITKEF 358
Db 335 GHYMSHNLINTIDYKMSLFHLF-LPAAFIRNLSLYTSFNFTFK----- 379
QY 359 PIIGFMLFNDLLTLECAMQVMSLSRTHYQADAYAKKGLGYKQNLCRALIDLQIKNL 418
Db 380 PVIVGLLLFSDALGPLSSILTFASNKVSRUCEYQADAFKQLGYAKDGLDGLIRIHDDNL 439
QY 419 STMNVDPLYSSYHSHPTLAERSTALDLYVSEKKKN 453
Db 440 SPLEFOSLYTSYHSHPHLDVRLNAIDYTLTKNN 474

RESULT 3
US-11-008-331-2
; Sequence 2, Application US/11008331
; Publication No. US20050244925A1
; GENERAL INFORMATION:
; APPLICANT: Genencor International, Inc.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms

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```

; FILE REFERENCE: GC386-PCT
; CURRENT APPLICATION NUMBER: US/11/008,331
; CURRENT FILING DATE: 2004-12-08
; PRIOR APPLICATION NUMBER: EP9719637.2
; PRIOR FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 426
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-11-008-331-2

Query Match 14.0%; Score 328; DB 7; Length 426;
Best Local Similarity 26.9%; Pred. No. 1.8e-20;
Matches 108; Conservative 76; Mismatches 152; Indels 66; Gaps 14;

QY 81 LAQKLVFIKYDLF----PKIMHMAVSLI-----NAVLPVRFHMVSTVAQSLCF 124
Db 53 VAEQYSNVKNFLFFIGVPLDWFLFFVLLVSGVSKKIKKWEAAVPRF-----LQTVGF 106
QY 125 LGLSLSLTLDPLSLYSYSHFVLEBKFGFNKLTVOLMTDMIKSLTAYAIKGG---PILY 181
Db 107 VFVLSLITTLTLPDWIGYQVSLD-YNISTQTASWAKDQVISEWISPFITLCLVLFY 165
QY 182 LFLKIFDKPPTDFLWYIMV----FLFVQVILAMTIPVFMFMFNKFTPLEDGELKKIES 237
Db 166 WLIRKHKWKWLYAWLLTVPPSLFLFFIQ-----PVIIDPLYNDYFPLKKELESKIL 218
QY 238 SLADRVGPDLKIFVIDGSKRSSHSHNAYFTGLPFTSKRVLFDLTIVNSNSTDEITAVLAH 297
Db 219 ELADEANIPADHVYEVNWKSEKTNALNAVYTGIG-ANKRIVLDWTLTKLDDSEILFIMGH 277
QY 298 EIGHQWQHINVMNIFSOHLHTFLIFSL-----FTSIYRNTSFYNTFTGPFLEKSTGSGFVDP 352
Db 278 EMGHVVMKH-----VYIGLAGYLLVSLAGFYVIDKLYKRTVRLTRSMFHLGRHDLAALP 332
QY 353 VITKFPPIIIGFMLFNDLLTLECAMQVMSLSRTHYQADAYAKKL-GYKQNLCRALI 411
Db 333 L-----LILLFSVLVSFAVTPFSNA-----VSRYOENKADQYGIELTENREAAVKTQ 379
QY 412 DLQIKNLSTMNVDPLYSSYHSHPTLAERSTALDLYVSEKKKN 453
Db 380 DLAVTCLSQVDPVLVKIFRGSHPSIMERIQH-----AEKEEN 417

RESULT 4
US-10-467-657-3232
; Sequence 3232, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SPA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 3232
; LENGTH: 279
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-3232

Query Match 6.3%; Score 148.5; DB 6; Length 279;
Best Local Similarity 25.7%; Pred. No. 9.4e-06;
Matches 59; Conservative 42; Mismatches 88; Indels 41; Gaps 10;

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QY 228 EDGELKKSIESLADRVGFLPKIFVIDGSKSSHNAVFTGLPTSKRVLFDLTVNSNS 287
Db 75 EAMLLNTVEAQRQWNLKTEVAIY-----HSPENAFATGASRNSSLIATVSTGLDHTM 130
QY 288 TDEITAVLAHEIGHQKWHVNM-VIPSQLHTFLIFSLFTSIYRNTSYFNTFGFLEKST 346
Db 131 RDEEAVLAHEMAHVGNGDMVTLIQGVNTFVVF--LSRIIANLIARNNDG---SQSQ 185
QY 347 GSFVDPVITKEPFIIGMFLNDLLTPLECAMQFVMSLISRTHEYQADAYAKKLGKYNL 406
Db 186 GTYF--LVSMVFOILFGFL-----ASLIVMWFQRREYRADAAGAKLVGAPKM 231
QY 407 CRAL-----IDLQIKNLSTMNV-----DPLYSYHYSHPTLAERSTAL 444
Db 232 ISALQRLKGNPVDLP-EEWNAWGIAGTRDSLLS-----THPSLONRIARL 276

RESULT 5
US-11-008-331-6
; Sequence 6, Application US/11008331
; Publication No. US20050244925A1
; GENERAL INFORMATION:
; APPLICANT: Genencor International, Inc.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms
; FILE REFERENCE: GC386-PC1
; CURRENT APPLICATION NUMBER: US/11/008,331
; CURRENT FILING DATE: 2004-12-08
; PRIOR APPLICATION NUMBER: EP9719637.2
; PRIOR FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 283
; TYPE: PRT
; ORGANISM: Haemophilis influenza
US-11-008-331-6

Query Match 6.3%; Score 147.5; DB 7; Length 283;
Best Local Similarity 26.5%; Pred. No. 1.2e-05;
Matches 73; Conservative 42; Mismatches 101; Indels 59; Gaps 12;

QY 198 IMVFLFVQILAMTIIPVIMPENKFTPLE-----DGE-----LKKIESLADRV 243
Db 37 INALLFG---FAGSIISLFL-----SKTALRSVDGEVITQPNQTERWLDITVSRQAOKA 89
QY 244 GPLDKIFVIDGSKSSHNAVFTGLPTSKRVLFDLTVNSNSTDEITAVLAHEIGHQW 303
Db 90 GIPMPDVAIY-----HSPDVNATGATKNSLVAVSTGLNNMTAEAEAVLAHEISHIS 145
QY 304 KNIHVNMFV-SQLHTFLIF-----SLFTSIYRNTSYFNTFGFLEKSTGSPVDVITKE 357
Db 146 NGDMVTMALQGVNTFVIFLSRVATAVASSRNNNGET-----RSSGIYFLVSMVLE 199
QY 358 FPIIIGFMFLNDLLTPLECAMQFVMSLISRTHEYQADAYAKKLGKYNLCLALIDQ--- 414
Db 200 -----MLFGVLASII--AMWF-----SRVEFRADAGASLVGKEXKIMALQRLQOLH 245
QY 415 -----IKNLSTMNVDPLYSYHYSHPTLAERSTAL 444
Db 246 EPONLEGLSNAPMNGKRSSELPWSPPLEKRIEAL 280

RESULT 6
US-11-074-176-6
; Sequence 6, Application US/11074176
; Publication No. US20050250135A1
; GENERAL INFORMATION:
; APPLICANT: Klaenhammer, Todd R.
; APPLICANT: Russell, William M.
; APPLICANT: Altermann, Eric
; APPLICANT: McAuliffe, Olivia
; APPLICANT: Perill, Andrea Azcarate
```

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; TITLE OF INVENTION: Nucleic Acid Sequences Encoding
; TITLE OF INVENTION: Stress-Related Proteins and Uses Therefore
; FILE REFERENCE: 5051-694
; CURRENT APPLICATION NUMBER: US/11/074,176
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: 60/551,161
; PRIOR FILING DATE: 2004-03-08
; NUMBER OF SEQ ID NOS: 381
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Lactobacillus acidophilus
US-11-074-176-6

Query Match 4.4%; Score 104; DB 7; Length 298;
Best Local Similarity 20.8%; Pred. No. 0.052;
Matches 70; Conservative 60; Mismatches 134; Indels 72; Gaps 16;

QY 146 VLEKFGFNKLTVOLWITDMIKSLTAYAGGPIYLFKLIFDKFPTDFLWYIMVFLF-- 203
Db 1 MLYQIARNKRKKTALIMVLFVILTL---VGAGLGILF-----SNSPWTGIILALAG 49
QY 204 -VVOILAMTIIPVIMPENKFTPLEDG---ELKKSIESLADRVGFLPKIFVIDGSKRS 259
Db 50 SLIYLLIMQNPANMIMSLNHAQIQEADNPDELWHIVEDMAVARVMPRVFIIP-----D 105
QY 260 SHSNAYFTGLPTSKRIVLFDLTVNSNSTDEITAVLAHEIGHQKWHVNMVIFSOLHTF 319
Db 106 PSPNAPATGRDPEHSAVAVTQGILELMNRELEGLVGHLEL-----SHVNTDILLSTIGV 160
QY 320 LIFSLETSIYRNTSYFNTFGFF-----LEKSTGSPVDVITKEPFIIGFMFLNDLLT 372
Db 161 VLVGVISFISIASRY--IWFFGGRDRDDEDNAP--EILFKVIAIV--FVL---ILG 211
QY 373 PLECAMQFVMSLISRTHEYQADAYAKKLGKYNLCLAL-----IDLQI 415
Db 212 PISASL--AQWALSRENYLADASSVELTRNPQGLISALRKIEGSPQMRQADRSSAGLYI 269
QY 416 KNLSTMNVDPLY-----SSYHYSHPTLAERSTALDYV 447
Db 270 EN-----PPHNHGLSHLFDTHPPPTEDRIKRLHEM 298

RESULT 7
US-10-821-234-1436
; Sequence 1436, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt SEQ_genes Version 1.0
; SEQ ID NO 1436
; LENGTH: 377
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1436

Query Match 4.0%; Score 93; DB 6; Length 377;
Best Local Similarity 21.5%; Pred. No. 0.59;
Matches 72; Conservative 44; Mismatches 101; Indels 118; Gaps 16;

QY 103 LINAVLPVRFHNVSTVAQSLCFLGLSSLSLTVLDPLSYSHFVLEKFGFNKLTVOLWI 162
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Db 40 LLWALLPIFFGALRSVR-----CARGKNAS----- 64
QY 163 TMIKSLTLAYAGGPI-----LYLFKLPDKPTDFLMYIMVFLFVVOILAMTIIP 214
Db 65 -DMPETITSRDAARFPIIASCTLGLYLKFKIFSQEIYINLL--LSMYFFVLGILALSHT- 120
QY 215 VETMPMFNFTPLEDEGELKKSIESLADRVGFPDLKIFVIDGSKRSHSNAYFTGLPFTSK 274
Db 121 --ISPFMNKFPF-----ASFP-NROYQLLFTQGSGENKEEINVEFDTK 161
QY 275 RIVLFDTLVNSNSTDEITAVLAHEIGHQWKNHI-----VNMVIFSQHLT--FLIFS 323
Db 162 DLVCL-----GLSSIYGVWYLLRKHWIANNLFGLAFLSGLNGVELLHNNVSTGCILLGG 214
QY 324 LFTSIYRNTSFYNTGFFLEKSTGSDVPDVIK--BFPILIGP-----ML 366
Db 215 LF-----IYDVFWVF-----GTNMVMTVAKFFEAPIKLPDQLLEKLEANNFAML 261
QY 367 -FNDLLTP---LECAMQFVMSLSIRTHEYOADAYA 397
Db 262 GLGDVVIPIGIFALLURFDISLKNKNTHTYTSFA 296

RESULT 8
US-10-793-626-806
; Sequence 806, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 806
; LENGTH: 414
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-806

Query Match 3.9%; Score 92; DB 6; Length 414;
Best Local Similarity 23.0%; Pred. No. 0.8;
Matches 72; Conservative 46; Mismatches 103; Indels 92; Gaps 15;

QY 96 IWHMV-----SLLNAVLPVRHVMVSTVAQSLCFLGLSSLSLTVLDPLSYSHVLE 148
Db 75 IWRILVVTGLRGQBIISKNVLPGLTIISIL---IAFGGLAFNIGNAGAGLGNAMFGLD 131
QY 149 EKEGFENKLTQLMTIDMIKSLTLAYAGGPIVLFL-----KIFDKFPPTDFLMYIMVFLF 203
Db 132 VKWG-----AAITAIFAI-----LIFVRSRQKIMD-----VISILG 164
QY 204 VVOILAMTIIPVFIMP-----MFNKFPTLEDGELKKSIESLADRVGFPDLKIFVIDGSKR 258
Db 165 IVMLLVAVYVNVSNPYGDALVHTFAPEHPFKLILPIITL---VGVTVGGYITFAGAHR 221
QY 259 SSHS-----NAYFTGLPFTSK-----RIVLF-----DTLVNSNSTDEITAVL 295
Db 222 ILDSGIRKGSY---LPPVNSAVAGILTTGVMRTLLFLAVLGVVVTGVTLSSENPPASVF 278
QY 296 AHEIGHQWKNHINVMVIFSQHLTFLIFSLTFSIYRNTSFYNTGFFLEKSTGSDVPDVI 355
Db 279 QHAGUPITGKN-IFGVVIFAAAMSSVIGSAYISA-----TFLKTLHKS-----LLN 322
QY 356 KEFPIIIGFMLFN 368
Db 323 KNNLIVITFVIS 335
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RESULT 9

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US-10-793-626-1694
; Sequence 1694, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1694
; LENGTH: 339
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-1694
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Query Match 3.9%; Score 91; DB 6; Length 339;

Best Local Similarity 20.6%; Pred. No. 0.75; Mismatches 52; Indels 110; Gaps 17;

Matches 70; Conservative 52; Mismatches 107; Indels 110; Gaps 17;

QY 78 VYNLAQKLV-----FIKYDLFP-----KIMHMAVSLNNAVLVRFHFMVSTVAQSL- 122

Db 12 IVKLSQMVVLFILITITFILMKLSGPNVDPVKILHLDIS-----HVSNEQIETTETENKLG 65

QY 123 ----CFLGLLSLSLTL--VDLPLSY-SHFVLEEFKFGFNKLTQVQWITDMIKSLTLAYAI 175

Db 66 LNNPIFIQWMDWLNLQFLHFDLGTSTQSEPVIREIANVGLPTLIITFGTLIVLSVISIFL 125

QY 176 GGPILYVLFKIFDK-----FPTDFLMYIMVFLFVVOILAMTIIPV-----F 216

Db 126 GIIAVYVHKIWDRIIRVMTLSVSLPFFIGLILLYIF---SLKNIILPTSDGEGFVS 182

QY 217 IMPMFNKFPTLEDGELKKSIESLADRVGFPDLKIF-----VIDGSKRSHSNAYFTGLP 270

Db 183 ILPI-----ITWSIGMCAYVIRFIRSTLLEQYQTPIVESSR-----LRGMP 223

QY 271 FTSKRIVLPDTLVNSNSTDEITAVLAHEIGHQWKNHINVMVIFSQHLTFLIFSLF--TSI 328

Db 224 ---ERYILFQDILKPTIL-PIIPLILGLSIG-----SLIGGTVV 257

QY 329 YRNTSFYNTGFFLEKSTGSDVPDVIKFPPIIGFMFLF 367

Db 258 IENLFDIPGLGYFL-----VDSIKSRDYPVIOGCVL 289

RESULT 10

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US-10-793-626-1060
; Sequence 1060, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1060
; LENGTH: 648
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
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RESULT 11
US-10-131-826A-218
; Sequence 218, Application US/10131826A
; Publication No. US20050245730A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C128
; CURRENT APPLICATION NUMBER: US/10/131, 826A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113

RESULT 12
US-11-008-331-5
; Sequence 5, Application US/11008331
; Publication No. US20050244925A1
; GENERAL INFORMATION:
; APPLICANT: Genencor International, Inc.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms
; FILE REFERENCE: GC386-PCT
; CURRENT APPLICATION NUMBER: US/11/008,331
; CURRENT FILING DATE: 2004-12-08
; PRIOR APPLICATION NUMBER: EP9719637.2
; PRIOR FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 6

[illegible]

Qy 300 GHQKNHIVNMVIPSQHTFL-IFSLFTSIYRNTSFYNTFG 339
Db 176 ---QFLTQNYGLGSTIALFLIFMAFLLIITKSKSNGK 213

RESULT 15

US-10-793-626-1124
; Sequence 1124, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1124
; LENGTH: 250
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-1124

Query Match 3.5%; Score 83; DB 6; Length 250;
Best Local Similarity 19.7%; Pred. No. 2.3;
Matches 47; Conservative 35; Mismatches 58; Indels 98; Gaps 11;
Qy 18 IISGFSIAQFSF-----ESYLYRQYQKLSETKLPVLEDEIDDETFHKSRNYSRAKAKPS 73
Db 60 ILIGFVFVFFFTLISGIGLKERTSGTLERLLASPIKSEI----- 100
Qy 74 IFGDV-----YNLAQKLVFIKY-----DLFPKIWH-MAYSLNNAVLPVRFH-MVSTVA 119
Db 101 IFGYVFGYGSFVIQTIWVLYAIYILHIDLVGSIWVLLTAILTALVAVTFGILLSTFA 160
Qy 120 QS-----LCFLGLSSLSSTLVLDPLSYSHF-----VLEEKFG 152
Db 161 SSEFOMIQFIPLVIVPQVLFAGIPIES--MNKGLQYFSHIMPLPYTCQTMQNMIKGYG 218
Qy 153 FNKLTVLWITDMIKSLTLAVAIGGPILYFLFKIPDKPTDFLWYIMVFLFVVOILAM 210
Db 219 FND-----IYIVLIV-----LPAFFIFLLILNIIGM 244

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OM protein - protein search, using sw model

Run on: December 9, 2005, 02:55:15 ; Search time 76.6797 Seconds
(without alignments)
2468.407 Million cell updates/sec

Title: US-09-165-460A-2
Perfect score: 2342
Sequence: 1 MFDLKTILDHPNIWPKLIIS.....HPTLAERSTALDYVSEKKKN 453

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Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA Main:
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2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
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6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	2342	100.0	453	US-10-646-950-2	Sequence 2, Appli
2	2336	99.7	472	US-10-328-459-3	Sequence 3, Appli
3	903	38.6	474	US-10-328-459-4	Sequence 4, Appli
4	855	36.5	424	US-10-210-760A-24	Sequence 24, Appl
5	855	36.5	424	US-10-229-541A-119	Sequence 119, App
6	851	36.3	424	US-10-210-760A-22	Sequence 22, Appl
7	851	36.3	424	US-10-229-541A-117	Sequence 117, App
8	850	36.3	424	US-10-210-760A-30	Sequence 30, Appl
9	850	36.3	424	US-10-229-541A-125	Sequence 125, App
10	849	36.3	424	US-10-210-760A-2	Sequence 2, Appli
11	849	36.3	424	US-10-229-541A-98	Sequence 98, Appl
12	836	35.7	424	US-10-210-760A-15	Sequence 15, Appl
13	836	35.7	424	US-10-229-541A-110	Sequence 110, App
14	836	35.7	424	US-10-424-599-263806	Sequence 263806,
15	833	35.6	424	US-10-210-760A-18	Sequence 18, Appl
16	833	35.6	424	US-10-229-541A-113	Sequence 113, App
17	828	35.4	425	US-10-425-115-201372	Sequence 201372,
18	828	35.4	487	US-10-425-114-42181	Sequence 42181, A
19	819.5	35.0	459	US-10-210-760A-32	Sequence 32, Appl
20	819.5	35.0	459	US-10-229-541A-127	Sequence 127, App
21	761	32.5	400	US-10-210-760A-28	Sequence 28, Appl
22	761	32.5	400	US-10-229-541A-123	Sequence 123, App
23	735	31.4	424	US-10-210-760A-73	Sequence 73, Appl
24	730.5	31.2	451	US-11-097-143-19218	Sequence 19218, A
25	725.5	31.0	329	US-10-210-760A-26	Sequence 26, Appl
26	725.5	31.0	329	US-10-229-541A-121	Sequence 121, App
27	679	29.0	1023	US-10-437-963-136996	Sequence 136996,

28	654	27.9	316	4	US-10-210-760A-34	Sequence 34, Appl
29	654	27.9	316	4	US-10-229-541A-129	Sequence 129, App
30	571.5	24.4	340	3	US-09-925-302-635	Sequence 635, App
31	571.5	24.4	340	3	US-09-925-302-635	Sequence 635, App
32	521.5	22.3	525	4	US-10-210-760A-69	Sequence 69, Appl
33	521.5	22.3	525	4	US-10-229-541A-164	Sequence 164, App
34	459	19.6	407	4	US-10-335-977-5836	Sequence 5836, Ap
35	459	19.6	407	4	US-10-335-977-5837	Sequence 5837, Ap
36	406.5	17.4	447	6	US-11-097-143-19233	Sequence 19233, A
37	372.5	15.9	426	6	US-11-097-143-19248	Sequence 19248, A
38	366.5	15.6	421	4	US-10-282-122A-52166	Sequence 52166, A
39	341.5	14.6	145	4	US-10-424-599-263807	Sequence 263807,
40	328	14.0	426	4	US-10-328-459-2	Sequence 2, Appli
41	326.5	13.9	146	4	US-10-767-701-40070	Sequence 40070, A
42	294.5	12.6	211	4	US-10-425-115-204120	Sequence 204120,
43	274.5	11.7	192	4	US-10-335-977-9682	Sequence 9682, Ap
44	256.5	11.0	102	4	US-10-425-115-201373	Sequence 201373,
45	241.5	10.3	504	6	US-11-097-143-16908	Sequence 16908, A

ALIGNMENTS

RESULT 1
US-10-646-950-2
; Sequence 2, Application US/10646950
; Publication No. US20040072296A1
; GENERAL INFORMATION:
; APPLICANT: Rine, Jasper
; APPLICANT: Boyartchuk, Victor L
; APPLICANT: Ashby, Matthew N
; TITLE OF INVENTION: AFC1 and RCE1: Isoprenylated CAAX Processing Enzymes
; FILE REFERENCE: B96-021-3
; CURRENT APPLICATION NUMBER: US/10/646,950
; CURRENT FILING DATE: 2003-08-21
; PRIOR APPLICATION NUMBER: 60/023,491
; PRIOR FILING DATE: 1996-08-07
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-10-646-950-2

Query Match	100.0%	Score	2342;	DB	4;	Length	453;
Best Local Similarity	100.0%	Pred. No.	1.1e-209;				
Matches	453;	Conservative	0;	Mismatches	0;	Indels	0;
Gaps	0;						
Qy	1	MFDLKTILDHPNIWPKLIISGFSIAQSFESYLTROYOKLSETKLPVLEDEIDDETFH	60				
Db	1	MFDLKTILDHPNIWPKLIISGFSIAQSFESYLTROYOKLSETKLPVLEDEIDDETFH	60				
Qy	61	KSRNYSRAKAFSIFGDVYNLAQKLVFIKYDLFPKIMHMAVSLNNAVLPRFHMVSTVAQ	120				
Db	61	KSRNYSRAKAFSIFGDVYNLAQKLVFIKYDLFPKIMHMAVSLNNAVLPRFHMVSTVAQ	120				
Qy	121	SLCFLGLLSLSTLDPLSYSHFVLEKEFGFNKLTVOLMTDMIKSLTLAYATGGPIL	180				
Db	121	SLCFLGLLSLSTLDPLSYSHFVLEKEFGFNKLTVOLMTDMIKSLTLAYATGGPIL	180				
Qy	181	YLFUKIPDKPPTDFLWYIMVFLFVVOILAMTIIIPVFMPMENKFTPLDGLKKIESIA	240				
Db	181	YLFUKIPDKPPTDFLWYIMVFLFVVOILAMTIIIPVFMPMENKFTPLDGLKKIESIA	240				
Qy	241	DRVGFPDLKIFVIDGSKSSHSNAYFTGLPPTSKRIVLFDTLVNSNSTDEITAVLAHEIG	300				
Db	241	DRVGFPDLKIFVIDGSKSSHSNAYFTGLPPTSKRIVLFDTLVNSNSTDEITAVLAHEIG	300				
Qy	301	HWQKNHVNVIQSLHTFLIFSLFTSIYRNTSYNTFGFFLEKSTGSGFVDPVITKEPPI	360				
Db	301	HWQKNHVNVIQSLHTFLIFSLFTSIYRNTSYNTFGFFLEKSTGSGFVDPVITKEPPI	360				

```
QY 361 IIGFMLFNDLLTPLECAMQVMSLSRTHYQADAVAKKLGKQKNCRALIDLOIKNLST 420
Db 361 IIGFMLFNDLLTPLECAMQVMSLSRTHYQADAVAKKLGKQKNCRALIDLOIKNLST 420
QY 421 MNVDPLYSSHYSHPTLAERSTALDYVSEKKKN 453
Db 421 MNVDPLYSSHYSHPTLAERSTALDYVSEKKKN 453

RESULT 2
US-10-328-459-3
; Sequence 3, Application US/10328459
; Publication No. US20030113895A1
; GENERAL INFORMATION:
; APPLICANT: Genencor International, Inc.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms
; FILE REFERENCE: GC386-PCT
; CURRENT APPLICATION NUMBER: US/10/328,459
; PRIOR FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: EP9719637.2
; PRIOR FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 472
; TYPE: PRT
; ORGANISM: S. cerevisiae
US-10-328-459-3

Query Match 99.7%; Score 2336; DB 4; Length 472;
Best Local Similarity 99.8%; Pred. No. 4.2e-209; Indels 0; Gaps 0;
Matches 452; Conservative 0; Mismatches 1;

QY 1 MFDLKTILDHPNIPWKLIISGFSIAQFSPESYLTYRQYQKLSLTKLPVLEDEIDDETH 60
Db 1 MFDLKTILDHPNIPWKLIISGFSIAQFSPESYLTYRQYQKLSLTKLPVLEDEIDDETH 60
QY 61 KSRNYSRAKAKFSIFGDVYNLAQKLVFIKYDLFPKIWHMAVSLNAVLPVRFHMVSTVAQ 120
Db 61 KSRNYSRAKAKFSIFGDVYNLAQKLVFIKYDLFPKIWHMAVSLNAVLPVRFHMVSTVAQ 120
QY 121 SLCLFGLLSLSTLVDLPVLSYSHGFVLEEKFGFNKLTQVQILAMTIIIPVIMPMPNKFTPLDGLKKSIESLA 180
Db 121 SLCLFGLLSLSTLVDLPVLSYSHGFVLEEKFGFNKLTQVQILAMTIIIPVIMPMPNKFTPLDGLKKSIESLA 180
QY 181 YLFKIFDKPPTDPLVIMVFLFVQILAMTIIIPVIMPMPNKFTPLDGLKKSIESLA 240
Db 181 YLFKIFDKPPTDPLVIMVFLFVQILAMTIIIPVIMPMPNKFTPLDGLKKSIESLA 240
QY 241 DRVGFPDLKIFVIDGSKRSHSNAYFTGLPFTSKRIVLFDVLVNSNSTDEITAVLAHEIG 300
Db 241 DRVGFPDLKIFVIDGSKRSHSNAYFTGLPFTSKRIVLFDVLVNSNSTDEITAVLAHEIG 300
QY 301 HWQKNHIVNVIISQLHTFLIFSLFTSIYRNTSFYNTFGFFLEKSTGSGFVDPVITKEFPI 360
Db 301 HWQKNHIVNVIISQLHTFLIFSLFTSIYRNTSFYNTFGFFLEKSTGSGFVDPVITKEFPI 360
QY 361 IIGFMLFNDLLTPLECAMQVMSLSRTHYQADAVAKKLGKQKNCRALIDLOIKNLST 420
Db 361 IIGFMLFNDLLTPLECAMQVMSLSRTHYQADAVAKKLGKQKNCRALIDLOIKNLST 420
QY 421 MNVDPLYSSHYSHPTLAERSTALDYVSEKKKN 453
Db 421 MNVDPLYSSHYSHPTLAERSTALDYVSEKKKN 453

RESULT 3
US-10-328-459-4
; Sequence 4, Application US/10328459
; Publication No. US20030113895A1
; GENERAL INFORMATION:
; APPLICANT: Genencor International, Inc.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms
```

```
; FILE REFERENCE: GC386-PCT
; CURRENT APPLICATION NUMBER: US/10/328,459
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: EP9719637.2
; PRIOR FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 474
; TYPE: PRT
; ORGANISM: Schizocaccaromyces pombe
US-10-328-459-4

Query Match 38.6%; Score 903; DB 4; Length 474;
Best Local Similarity 40.4%; Pred. No. 2.7e-75; Indels 22; Gaps 6;
Matches 184; Conservative 96; Mismatches 153;

QY 4 LKTILDHPNIPWKLIISGFSIAQFSPESYLTYRQYQKLSLTKLPVLEDEIDDETHFKSR 63
Db 37 LMHILDIQFPWKIIVAGFSIGKYAWDLVLRROQVPYLLREKPPALLAEHVDEKYYQKAL 96
QY 64 NYSRAKAKFSIFGDVYNLAQKLVFIKYDLFPKIWHMAVSLNAVLPVRFHMVSTVA 119
Db 97 SYARDKSNFSTIVSTFTLAVDLLIIKYDGLSYLNMNITKPPWMDKL-AASSSRFSLSTSI 155
QY 120 QSLCLFGLLSLSTLVDLPVLSYSHGFVLEEKFGFNKLTQVQILAMTIIIPVIMPMPNKFTPLDGLKKSIESL 179
Db 156 HSCVFMFGLTFLSRLIQIPFNLYSTFVIEEKYGFNKRSTLKIIFVIDLLKLSLGGLLMSVV 215
QY 180 LYLFLKIFDKPPTDPLVIMVFLFVQILAMTIIIPVIMPMPNKFTPLDGLKKSIESL 239
Db 216 VGVFVKILTKFGDNFIMWAGYIVFGLLIQIAPSLIMPLFYKFTPLENGSLRQIEEL 275
QY 240 ADRVGFPDLKIFVIDGSKRSHSNAYFTGLPFTSKRIVLFDVLVNSNSTDEITAVLAHEI 299
Db 276 AASINFPKLKLVIDASRRSTHSNAPFYGLPW-NKGIVLFDVLVKNHTEPELIAILGHEL 334
QY 300 GHQKNH-IVNVIISQLHTFLIFSLFTSIYRNTSFYNTFGFFLEKSTGSGFVDPVITKEF 358
Db 335 GHYWSHNLIINTIIDYGMSLPHLF-LFAFIRNLSLYTSFNITEK----- 379
QY 359 PIIIGFMLFNDLLTPLECAMQVMSLSRTHYQADAVAKKLGKQKNCRALIDLOIKNL 418
Db 380 PVIUGLLFSDALGPLSSILTFASNKVSRLCEYQADAFKQJGAKQJGDLGIRIHDDNL 439
QY 419 STMNVDPVLSYSHYSHPTLAERSTALDYVSEKKKN 453
Db 440 SPLEFDSLTSYSHSHPTILVDRINAIDYTTLKNN 474

RESULT 4
US-10-210-760A-24
; Sequence 24, Application US/10210760A
; Publication No. US20030204865A1
; GENERAL INFORMATION:
; APPLICANT: Wan, Jiangxin
; APPLICANT: Huang, Yafan
; APPLICANT: Delina Campbell, Mary-Jane
; APPLICANT: Kuzma, Monika Maria
; APPLICANT: Gilley, Angela Patricia
; TITLE OF INVENTION: Caax prenyl protease nucleic acids and polypeptides and
; FILE REFERENCE: 22542-009
; CURRENT APPLICATION NUMBER: US/10/210,760A
; CURRENT FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: 60/309,396
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
; LENGTH: 424
```

```
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-210-760A-24

Query Match      36.5%; Score 855; DB 4; Length 424;
Best Local Similarity 41.6%; Pred. No. 7e-71;
Matches 184; Conservative 72; Mismatches 162; Indels 24; Gaps 6;

Qy 13 IPWKLIISGFSIAQFSPESYLTIRYQYKLSKTLPPVLEDEIDDETFHKSNNYSRAKAKF 72
Db 3 IPFWETVGVGMIVMYIFETVLDLRLQLTALKLPTLPKTLVGVISOEKEFKSRAYSLSKSYF 62
Qy 73 SIFGDVNVLAQKLVFIKYDLPFKIWMHMAVSLNNAVLP-VRFHMVSTVAQSLCFLGLSSSL 131
Db 63 HFVHEFVTILMDSAILPFGILPWFWMKS----GAVLPRLGLDPENILHTLSFLAGVMTW 118
Qy 132 STLVDPLSYSHVLEKEFGFNKLTVOLWITDMIKSLTLAYAGGPIYLFKIFDKFP 191
Db 119 SQITDLPSLYSTFVIESRHGFNKTQIWMFIRDMIKGTFLSVILGPPVIAAIIIVQKGG 178
Qy 192 TDFLWYIMVFLFVVOILAMTIIPVIMPENKFTPLEDGELKKSIESLADRVGPELDKIF 251
Db 179 PYLAIVLWAFILSVNMVTIYPVLIAPLNFKNFTPLPDGDLREKIEKLASSLKPLKPLF 238
Qy 252 VIDGSKRSHSNAYFTGLPFTSKRIVLFDLVNS-NSTDEITAVLAHEIGHQKNHIVNM 310
Db 239 VVDGSTRSSHNAWYMGF-FKNKRIVLYDTLIOQCKNEDEIVAVIAHELGHKLNHTTYS 297
Qy 311 VIFSQHLTLFSLFTSIYRNTSFYNTFGFLEKSTGSDVPVITKEPPIIIGFMLENDL 370
Db 298 FIAVQILAFQGGYTLVRNSTDLFRSFGFDTQ-----PVLIGLIIFQHT 342
Qy 371 LTPLECAQFVMSLISRTHEYQADAYAKKLGKYNLCRALIDLOIKNLSTMNVDPLYSY 430
Db 343 VIPLQHLVSGNLNVSRAFEQADAFVAKGLYAKDLRALVQLKEENLSAMNTDPLYSAY 402
Qy 431 HYSHTPLAERSTALDYVSEKKK 452
Db 403 HYSHPPLVERLRAID--GEDKK 422

RESULT 5
US-10-229-541A-119
; Sequence 119, Application US/10229541A
; Publication No. US20040010821A1
; GENERAL INFORMATION:
; APPLICANT: McCourt, Peter
; APPLICANT: Ghasseman, Majid
; APPLICANT: Cutler, Sean
; APPLICANT: Bonetta, Dario
; TITLE OF INVENTION: Stress Tolerance and Delayed Senescence in Plants
; FILE REFERENCE: 22542-007CIP2
; CURRENT APPLICATION NUMBER: US/10/229,541A
; CURRENT FILING DATE: 2002-08-27
; PRIOR APPLICATION NUMBER: 10/160,764
; PRIOR FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: 60/294,766
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/348,909
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: 10/210,760
; PRIOR FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: 60/309,396
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 09/191,687
; PRIOR FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 119
; LENGTH: 424
; TYPE: PRT

; ORGANISM: Arabidopsis thaliana
US-10-210-760A-24

Query Match      36.5%; Score 855; DB 4; Length 424;
Best Local Similarity 41.6%; Pred. No. 7e-71;
Matches 184; Conservative 72; Mismatches 162; Indels 24; Gaps 6;

Qy 13 IPWKLIISGFSIAQFSPESYLTIRYQYKLSKTLPPVLEDEIDDETFHKSNNYSRAKAKF 72
Db 3 IPFWETVGVGMIVMYIFETVLDLRLQLTALKLPTLPKTLVGVISOEKEFKSRAYSLSKSYF 62
Qy 73 SIFGDVNVLAQKLVFIKYDLPFKIWMHMAVSLNNAVLP-VRFHMVSTVAQSLCFLGLSSSL 131
Db 63 HFVHEFVTILMDSAILPFGILPWFWMKS----GAVLPRLGLDPENILHTLSFLAGVMTW 118
Qy 132 STLVDPLSYSHVLEKEFGFNKLTVOLWITDMIKSLTLAYAGGPIYLFKIFDKFP 191
Db 119 SQITDLPSLYSTFVIESRHGFNKTQIWMFIRDMIKGTFLSVILGPPVIAAIIIVQKGG 178
Qy 192 TDFLWYIMVFLFVVOILAMTIIPVIMPENKFTPLEDGELKKSIESLADRVGPELDKIF 251
Db 179 PYLAIVLWAFILSVNMVTIYPVLIAPLNFKNFTPLPDGDLREKIEKLASSLKPLKPLF 238
Qy 252 VIDGSKRSHSNAYFTGLPFTSKRIVLFDLVNS-NSTDEITAVLAHEIGHQKNHIVNM 310
Db 239 VVDGSTRSSHNAWYMGF-FKNKRIVLYDTLIOQCKNEDEIVAVIAHELGHKLNHTTYS 297
Qy 311 VIFSQHLTLFSLFTSIYRNTSFYNTFGFLEKSTGSDVPVITKEPPIIIGFMLENDL 370
Db 298 FIAVQILAFQGGYTLVRNSTDLFRSFGFDTQ-----PVLIGLIIFQHT 342
Qy 371 LTPLECAQFVMSLISRTHEYQADAYAKKLGKYNLCRALIDLOIKNLSTMNVDPLYSY 430
Db 343 VIPLQHLVSGNLNVSRAFEQADAFVAKGLYAKDLRALVQLKEENLSAMNTDPLYSAY 402
Qy 431 HYSHTPLAERSTALDYVSEKKK 452
Db 403 HYSHPPLVERLRAID--GEDKK 422

RESULT 6
US-10-210-760A-22
; Sequence 22, Application US/10210760A
; Publication No. US20030204865A1
; GENERAL INFORMATION:
; APPLICANT: Wan, Jiangxin
; APPLICANT: Huang, Yafan
; APPLICANT: Delina Campbell, Mary-Jane
; APPLICANT: Kuzma, Monika Maria
; APPLICANT: Gilley, Angela Patricia
; TITLE OF INVENTION: Caax prenyl protease nucleic acids and polypeptides and
; TITLE OF INVENTION: methods of use thereof
; FILE REFERENCE: 22542-009
; CURRENT APPLICATION NUMBER: US/10/210,760A
; CURRENT FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: 60/309,396
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 22
; LENGTH: 424
; TYPE: PRT

; ORGANISM: Arabidopsis thaliana
US-10-210-760A-22

Query Match      36.3%; Score 851; DB 4; Length 424;
Best Local Similarity 41.4%; Pred. No. 1.6e-70;
Matches 183; Conservative 72; Mismatches 163; Indels 24; Gaps 6;

Qy 13 IPWKLIISGFSIAQFSPESYLTIRYQYKLSKTLPPVLEDEIDDETFHKSNNYSRAKAKF 72
Db 3 IPFWETVGVGMIVMYIFETVLDLRLQLTALKLPTLPKTLVGVISOEKEFKSRAYSLSKSYF 62
Qy 73 SIFGDVNVLAQKLVFIKYDLPFKIWMHMAVSLNNAVLP-VRFHMVSTVAQSLCFLGLSSSL 131
Db 63 HFVHEFVTILMDSAILPFGILPWFWMKS----GAVLPRLGLDPENILHTLSFLAGVMTW 118
Qy 132 STLVDPLSYSHVLEKEFGFNKLTVOLWITDMIKSLTLAYAGGPIYLFKIFDKFP 191
Db 119 SQITDLPSLYSTFVIESRHGFNKTQIWMFIRDMIKGTFLSVILGPPVIAAIIIVQKGG 178
Qy 192 TDFLWYIMVFLFVVOILAMTIIPVIMPENKFTPLEDGELKKSIESLADRVGPELDKIF 251
Db 179 PYLAIVLWAFILSVNMVTIYPVLIAPLNFKNFTPLPDGDLREKIEKLASSLKPLKPLF 238
Qy 252 VIDGSKRSHSNAYFTGLPFTSKRIVLFDLVNS-NSTDEITAVLAHEIGHQKNHIVNM 310
Db 239 VVDGSTRSSHNAWYMGF-FKNKRIVLYDTLIOQCKNEDEIVAVIAHELGHKLNHTTYS 297
Qy 311 VIFSQHLTLFSLFTSIYRNTSFYNTFGFLEKSTGSDVPVITKEPPIIIGFMLENDL 370
Db 298 FIAVQILAFQGGYTLVRNSTDLFRSFGFDTQ-----PVLIGLIIFQHT 342
Qy 371 LTPLECAQFVMSLISRTHEYQADAYAKKLGKYNLCRALIDLOIKNLSTMNVDPLYSY 430
Db 343 VIPLQHLVSGNLNVSRAFEQADAFVAKGLYAKDLRALVQLKEENLSAMNTDPLYSAY 402
Qy 431 HYSHTPLAERSTALDYVSEKKK 452
Db 403 HYSHPPLVERLRAID--GEDKK 422
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Db 3 IPFMTVVGFMIVMYIFETVLDRLQTLTKLPTLPKTLVGVISOEKFESRAYSLDKSYF 62

QY 73 SIFGDVYNLAQKLVFIKYDLFPKIMHMAVSLNNAVLP--VRFHMVSTVAQSLCFLGLLSSL 131

Db 63 HFVHEFVTILMDSAILFFGILPWFWMKS-----GAVLPRLGLDPENEILHTLSFLAGVMTW 118

QY 132 STLVDPLPSYSHFVLEEKFGFNKLTQVLWITDMIKSLTLAVAIGGPILYLFKIFDKFP 191

Db 119 SQITDLPFSLYSTFVIESRHGFNKTQIWMFIRDMIKGTFLSVILGPPVAAIIFIVQKGG 178

QY 192 TDFLWIMVFLFVVOILAMTIIPVFIIMPFNKFTPLEDGELKKSIESLADRVGFPDLKIF 251

Db 179 PYLAIVLWAFMPTLSLWMTIIPVLIAPLNFKNFTPLPDGDLREKIEKLASSLKFPKLKLF 238

QY 252 VIDGSRSSHSHNAYFTGLPFTSKRIVLPDTLVNS--NSTDEITAVLAHEIGHQKHNVM 310

Db 239 VVDGSTRSSHSHNAYMGF--FNKRIIVLYDTLQOCKNEDEIVAVIAHELGHKLNHTTYS 297

QY 311 VIFSOLHTLFIPLFTSIYRNTSFYNTFGFLEKSTGTFVDPVITKEFPPIIGFMLFNDL 370

Db 298 FIAVQILAFQCGYTLVRNSTDLFRSGFDTO-----PVLGLIIFQHT 342

QY 371 LTPLECAMQFVMSLISRTHEYQADAYAKLGYKONLCRALIDLOIKNLSTMNVDPLYSSY 430

Db 343 VIPLQHPVSFGLNLSRAPEFOADAFVAKLGYAKDLRPTLVKLQENLSAMNTDPLYSAY 402

QY 431 HYSHTPLAERSTALDYVSEKK 452

Db 403 HYSHPPLVERLRAID--GEDKK 422

RESULT 7

US-10-229-541A-117

; Sequence 117, Application US/10229541A

; Publication No. US20040010821A1

; GENERAL INFORMATION:

; APPLICANT: McCourt, Peter

; APPLICANT: Ghasseman, Majid

; APPLICANT: Cutler, Sean

; APPLICANT: Bonetta, Dario

; TITLE OF INVENTION: Stress Tolerance and Delayed Senescence in Plants

; FILE REFERENCE: 22542-007C1P2

; CURRENT APPLICATION NUMBER: US/10/229,541A

; CURRENT FILING DATE: 2002-08-27

; PRIOR APPLICATION NUMBER: 10/160,764

; PRIOR FILING DATE: 2002-05-31

; PRIOR APPLICATION NUMBER: 60/294,766

; PRIOR FILING DATE: 2001-05-31

; PRIOR APPLICATION NUMBER: 60/348,909

; PRIOR FILING DATE: 2001-10-22

; PRIOR APPLICATION NUMBER: 10/210,760

; PRIOR FILING DATE: 2002-08-01

; PRIOR APPLICATION NUMBER: 60/309,396

; PRIOR FILING DATE: 2001-08-01

; PRIOR APPLICATION NUMBER: 60/337,084

; PRIOR FILING DATE: 2001-12-04

; PRIOR APPLICATION NUMBER: 09/191,687

; PRIOR FILING DATE: 1998-11-13

; NUMBER OF SEQ ID NOS: 176

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 117

; LENGTH: 424

; TYPE: PRT

; ORGANISM: Arabidopsis thaliana

US-10-229-541A-117

Query Match 36.3%; Score 851; DB 4; Length 424;

Best Local Similarity 41.4%; Pred. No. 1.6e-70;

Matches 183; Conservative 72; Mismatches 163; Indels 24; Gaps 6;

QY 13 IPWKLIISGFSIAQFSFESYLTROYQKLSLSETKLPPVLEDEIDDETHFKSRNYSRAKAKF 72

Db 3 IPFMTVVGFMIVMYIFETVLDRLQTLTKLPTLPKTLVGVISOEKFESRAYSLDKSYF 62

QY 73 SIFGDVYNLAQKLVFIKYDLFPKIMHMAVSLNNAVLP--VRFHMVSTVAQSLCFLGLLSSL 131

Db 63 HFVHEFVTILMDSAILFFGILPWFWMKS-----GAVLPRLGLDPENEILHTLSFLAGVMTW 118

QY 132 STLVDPLPSYSHFVLEEKFGFNKLTQVLWITDMIKSLTLAVAIGGPILYLFKIFDKFP 191

Db 119 SQITDLPFSLYSTFVIESRHGFNKTQIWMFIRDMIKGTFLSVILGPPVAAIIFIVQKGG 178

QY 192 TDFLWIMVFLFVVOILAMTIIPVFIIMPFNKFTPLEDGELKKSIESLADRVGFPDLKIF 251

Db 179 PYLAIVLWAFMPTLSLWMTIIPVLIAPLNFKNFTPLPDGDLREKIEKLASSLKFPKLKLF 238

QY 252 VIDGSRSSHSHNAYFTGLPFTSKRIVLPDTLVNS--NSTDEITAVLAHEIGHQKHNVM 310

Db 239 VVDGSTRSSHSHNAYMGF--FNKRIIVLYDTLQOCKNEDEIVAVIAHELGHKLNHTTYS 297

QY 311 VIFSOLHTLFIPLFTSIYRNTSFYNTFGFLEKSTGTFVDPVITKEFPPIIGFMLFNDL 370

Db 298 FIAVQILAFQCGYTLVRNSTDLFRSGFDTO-----PVLGLIIFQHT 342

QY 371 LTPLECAMQFVMSLISRTHEYQADAYAKLGYKONLCRALIDLOIKNLSTMNVDPLYSSY 430

Db 343 VIPLQHPVSFGLNLSRAPEFOADAFVAKLGYAKDLRPTLVKLQENLSAMNTDPLYSAY 402

QY 431 HYSHTPLAERSTALDYVSEKK 452

Db 403 HYSHPPLVERLRAID--GEDKK 422

RESULT 8

US-10-210-760A-30

; Sequence 30, Application US/10210760A

; Publication No. US20030204865A1

; GENERAL INFORMATION:

; APPLICANT: Wan, Jiangxin

; APPLICANT: Huang, Yafan

; APPLICANT: Delina Campbell, Mary-Jane

; APPLICANT: Kuzma, Monika Maria

; APPLICANT: Gilley, Angela Patricia

; TITLE OF INVENTION: Coax prenyl protease nucleic acids and polypeptides and

; FILE REFERENCE: 22542-009

; CURRENT APPLICATION NUMBER: US/10/210,760A

; CURRENT FILING DATE: 2002-08-01

; PRIOR APPLICATION NUMBER: 60/309,396

; PRIOR FILING DATE: 2001-08-01

; PRIOR APPLICATION NUMBER: 60/337,084

; PRIOR FILING DATE: 2001-12-04

; NUMBER OF SEQ ID NOS: 75

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 30

; LENGTH: 424

; TYPE: PRT

; ORGANISM: Arabidopsis thaliana

US-10-210-760A-30

Query Match 36.3%; Score 850; DB 4; Length 424;

Best Local Similarity 41.4%; Pred. No. 2e-70;

Matches 183; Conservative 73; Mismatches 162; Indels 24; Gaps 6;

QY 13 IPWKLIISGFSIAQFSFESYLTROYQKLSLSETKLPPVLEDEIDDETHFKSRNYSRAKAKF 72

Db 3 IPFMTVVGFMIVMYIFETVLDRLQTLTKLPTLPKTLVGVISOEKFESRAYSLDKSYF 62

QY 73 SIFGDVYNLAQKLVFIKYDLFPKIMHMAVSLNNAVLP--VRFHMVSTVAQSLCFLGLLSSL 131

Db 63 HFVHEFVTILMDSAILFFGILPWFWMKS-----GAVLPRLGLDPENEILHTLSFLAGVMTW 118

QY 132 STLVDPLPSYSHFVLEEKFGFNKLTQVLWITDMIKSLTLAVAIGGPILYLFKIFDKFP 191

Db 119 SQITDLPFSLYSTFVIESRHGFNKTQIWMFIRDMIKGTFLSVILGPPVAAIIFIVQKGG 178

298	FTAVQILAFQFGGYTLRNSTDILFRSFGFDTQ-----PVLGLIIPQHT	342
371	LTPLECAWQFVMSLISRTHEYOADAYAKKLYGKQNLCRALIDIQKNLSMTMNVDPPLYSY	430
343	VIPQLHLVSFGNLVSRFAFEQQAFAVKLDYAKDLRPAVLKQBENLSMTMTDPLYSAY	402
431	HYSHPTLAERSTALDYVSEKKK	452
403	HYSHPPPLVERLATD--GEDKKK	422

```

RESULT 11
US-10-229-541A-98
; Sequence 98, Application US/10229541A
; Publication No. US20040010821A1
; GENERAL INFORMATION:
; APPLICANT: McCourt, Peter
; APPLICANT: Ghassemian, Majid
; APPLICANT: Cutler, Sean
; APPLICANT: Bonetta, Dario
; TITLE OF INVENTION: Stress Tolerance and Delayed Senescence in Plants
; FILE REFERENCE: 22542-007CIP2
; CURRENT APPLICATION NUMBER: US/10/229,541A
; CURRENT FILING DATE: 2002-08-27
; PRIOR APPLICATION NUMBER: 10/160,764
; PRIOR FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: 60/294,766
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/348,909
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: 10/210,760
; PRIOR FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: 60/309,396
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 09/191,687
; PRIOR FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 98
; LENGTH: 424
; TYPE: prt
; ORGANISM: Arabidopsis thaliana
US-10-229-541A-98

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Qy      371 LTPLECAMQFWSLISRTHSYQADAYAKKLGYNLCRALIDLOIKULSTWVNDPLYSY 430
Db      343 VIQLHVSFGSLNVSRAFEQDAFAVKLDYAKDLFPALVKQEENLSTWNTDPLYSAY 402
Qy      431 HYSHPTLAERSTALDVVSEKKK 452
Db      403 HYSHPPLVERLRATD--GEDKK 422

RESULT 12
US-10-210-760A-15
; Sequence 15, Application US/10210760A
; Publication No. US20030204865A1
; GENERAL INFORMATION:
; APPLICANT: Wan, Jiangxin
; APPLICANT: Huang, Yafan
; APPLICANT: Delina Campbell, Mary-Jane
; APPLICANT: Kuzma, Monika Maria
; APPLICANT: Gilley, Angela Patricia
; TITLE OF INVENTION: Caax prenyl protease nucleic acids and polypeptides and
; TITLE OF INVENTION: methods of use thereof
; FILE REFERENCE: 22542-009
; CURRENT APPLICATION NUMBER: US/10/210,760A
; CURRENT FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: 60/309,396
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Brassica napus
; US-10-210-760A-15

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RESULT 13

US-10-229-541A-110
; Sequence 110, Application US/10229541A
; Publication No. US20040010821A1
; GENERAL INFORMATION:
; APPLICANT: McCourt, Peter
; APPLICANT: Ghassemian, Majid
; APPLICANT: Cutler, Sean
; APPLICANT: Bonetta, Dario
; TITLE OF INVENTION: Stress Tolerance and Delayed Senescence in Plants
; FILE REFERENCE: 22542-007CIP2
; CURRENT APPLICATION NUMBER: US/10/229,541A
; CURRENT FILING DATE: 2002-08-27
; PRIOR APPLICATION NUMBER: 10/160,764
; PRIOR FILING DATE: 2002-05-31
; PRIOR APPLICATION NUMBER: 60/294,766
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/348,909
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: 10/210,760
; PRIOR FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: 60/309,396
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 09/191,687
; PRIOR FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 110
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Brassica napus
US-10-229-541A-110

Query Match 35.7%; Score 836; DB 4; Length 424;
Best Local Similarity 40.7%; Pred. No. 4.1e-69;
Matches 180; Conservative 73; Mismatches 165; Indels 24; Gaps 6;
Qy 13 IPWKLIISGFSIAQSFESYLTROYQKLSKTPVLEDEIDDETFHKSRYNRAKAF 72
Db 3 IPFMEVVGFMIVMVFETYLDLROHTALKLPTLPKTLGVVISQEKFSKRAYSLDKSHF 62
Qy 73 SIFGDVYNLAOKLVFIKYDLPKIHMAVSLNVLVPRFHMVSTVAQSLCFLGLSSL 131
Db 63 HFVHEFVILMDSAILFFGILPFWFKIS----GGFLPMVGLDPENEILHTLSFLAGMTW 118
Qy 132 STLVDPLSYSHFVLEKFGFNKLTVOIWMITDMIKSLTLAYAIIGPILYLFKIFDKXP 191
Db 119 SQITDLPFSLYSTFVIESRHGFKNTIWMFIRDMIKGILLSVIPPAPVIAIIVQKGG 178
Qy 192 TDFLWYIMVFLFVQIOLAMTIIPVFMFMFNKFTPLEDEGELKKSIESLADRVGFPDLKIF 251
Db 179 PVALYLWAFMFLISLVMMVTIYPLIAPLNFKNFTPLPDGLREKIEKCLASSLKFLPKL 238
Qy 252 VIDGSKRSHSNAYFTGLPFTSKRIVLFDTLVNS--NSTDEITAVLAHEIGHWQKHIVNM 310
Db 239 VVDGSTRSSHSNAYMGF--FKNKRIVLYDTLQOQONENIYAVIAHGLHGWKLNHTTYS 297
Qy 311 VFSQLHTFLIFSLFTSIYRNTSFYNTGFFLEKSTGSDVPDVTKEPPIIIGFMFLNDL 370
Db 298 FIAVQILAFQGGYTLVRNSADLYRSFGFDTQ-----PVLIGLIIFQHTV 342
Qy 371 LTPLECAMQFVMSLISRTHEYQADAYAKGLYKQNLCRALIDLQIKNLSTMMVNDPLYSY 430
Db 343 VIPLQHLVSFDNLVSRFQADAFANVLGVYAKDLRPALVKLQENLSAMNTDPLYSAY 402
Qy 431 HVSHTPLAERSTALDYVSEKK 452
Db 403 HYSHPPLVERLAID--GEDKK 422

RESULT 14

US-10-424-599-263806
; Sequence 263806, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 263806
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_80236C.1.pep
US-10-424-599-263806

Query Match 35.7%; Score 836; DB 4; Length 424;
Best Local Similarity 40.3%; Pred. No. 4.1e-69;
Matches 177; Conservative 70; Mismatches 172; Indels 20; Gaps 4;
Qy 14 PWKLIISGFSIAQSFESYLTROYQKLSKTPVLEDEIDDETFHKSRYNRAKAFS 73
Db 4 PYMEAVVGPMLMYIFETYLDVQHRALKLPTLPKTLLEGVISQEKFSKRAYSLDKSHFH 63
Qy 74 IFGDVYNLAOKLVFIKYDLPKIHMAVSLNVLVPRFHMVSTVAQSLCFLGLSSLST 133
Db 64 FVHEFVITVDTSTILYFGVLPFWFKSGDFMTI---AGFNAENILHTLAFAGLMWSQ 120
Qy 134 LVLDPLSYSHFVLEKFGFNKLTVOIWMITDMIKSLTLAYAIIGPILYLFKIFDKFPPTD 193
Db 121 ITDLPFSLYSTFVIEARHGFKNTPLPFRDMLKGFILSVIIGPPIVAAIIVQKGGPY 180
Qy 194 FLWIMVFLFVQIOLAMTIIPVFMFMFNKFTPLEDEGELKKSIESLADRVGFPDLKIFVI 253
Db 181 LAIYLWVFTFGLSTVMMVTIYPLIAPLNFKNFTPLPDQOLREKIEKCLASSLNPLKLFV 240
Qy 254 DGSKRSHSNAYFTGLPFTSKRIVLFDTLVNSNTD--EITAVLAHEIGHWQKHIVNMVI 312
Db 241 DGSTRSSHSNAYMGF--FKNKRIVLYDTLQOQKDDSEIYAVIAHGLHGWKLNHTVTVF 299
Qy 313 FSQHLHTFLIFSLFTSIYRNTSFYNTGFFLEKSTGSDVPDVTKEPPIIIGFMFLNDLLT 372
Db 300 AMQILTLQFGGYTLVRNSADLYRSFGFDTQ-----PVLIGLIIFQHTVI 344
Qy 373 PLECAMQFVMSLISRTHEYQADAYAKGLYKQNLCRALIDLQIKNLSTMMVNDPLYSYHY 432
Db 345 PLOQLVSGFLNLVSRFQADGFAKGLGYASGLRGGLVQLQOENLSAMNTDWPYSATHY 404
Qy 433 SHPTLAERSTALDYVSEKK 451
Db 405 SHPPPLVERLAVIDEFDKKE 423

RESULT 15

US-10-210-760A-18
; Sequence 18, Application US/10210760A
; Publication No. US20030204865A1
; GENERAL INFORMATION:
; APPLICANT: Wan, Jiangxin
; APPLICANT: Huang, Yafan
; APPLICANT: Delina Campbell, Mary-Jane
; APPLICANT: Kurma, Monika Maria
; APPLICANT: Gilley, Angela Patricia
; TITLE OF INVENTION: Caax prenyl protease nucleic acids and polypeptides and
; TITLE OF INVENTION: methods of use thereof
; FILE REFERENCE: 22542-009

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; CURRENT APPLICATION NUMBER: US/10/210,760A
; CURRENT FILING DATE: 2002-08-01
; PRIOR APPLICATION NUMBER: 60/309,396
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/337,084
; PRIOR FILING DATE: 2001-12-04
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 424
; TYPE: PRT
; ORGANISM: Glycine max
US-10-210-760A-18

Query Match      35.6%; Score 833; DB 4; Length 424;
Best Local Similarity 40.3%; Pred. No. 7.9e-69;
Matches 177; Conservative 70; Mismatches 172; Indels 20; Gaps 4;

Qy 14 PWKLIISGFSIAQFSRESYLTVROYQKLSLTKLPVLEDEIDDETFHKSRNYSRAKAKES 73
Db 4 PYMEAVVGFMILMYIFETYLDRQHRALKLPTLPKTEGVISOEKFEKRAYSLDKSHFH 63

Qy 74 IFGDVYNLAQKLVFIKYDLPFKIWHMAVSLNNAVLPRFHMVSTVAQSLCFLGLSSLSST 133
Db 64 FVHEFVTIVTDSITLYFGVLPWFPMKSGDFMTI--AGFNAENEILHTLAFLAGLMIWSQ 120

Qy 134 LVDLPISYSHFVLEKFGFNKLTQVIMTDMIKSLTLAYAGGPILYLFKIFDKFPTD 193
Db 121 ITDLPFSLYSTFVIEARHGFGNKOTPWLFRRDMLKGFISVIGPPIVAAIIVIVQGGPY 180

Qy 194 FLWYIMVFLFVQIOLAMTIIIPVIMPMENKFTLEDEGELKKSTESLADRVGRLDKIFVI 253
Db 181 LAIYLVWFTFGLSIVMMTLYPVLIAFLFNKFTPLPDGQUREKIEKLASSLNYPLKLFVV 240

Qy 254 DGSKRSSHSHNAYFTGLPFTSKRIVLFDTLVNSNSTD-EITAVLAHEIGHQKHNHIVNMI 312
Db 241 DGSTRSSHSHNAYWYGF-FKNKRIVPYDTLLIQCKDDDEIVAVIAHELGHKLNHTVYTFV 299

Qy 313 FSQHTFLIPSLTSTSYRNTSFYNTFGFLEKSTGSDVDVITKEPPIIIGFMLFNDLLT 372
Db 300 AMQILTLQFGGYTLVRNSADLYRSFGFDQ-----PVLIGLIIFQHTVI 344

Qy 373 PLSCAMQFVMSLISRTHEYQADAVAKKGYKQNLCRALIDLOIKNLSTMNVDPLYSSYHY 432
Db 345 PLQQLVSGFNLVRSRSEFQADGFAKGLGYASGLRGGLVKLQEENLSAMNTDPWYSAYHY 404

Qy 433 SHPTLAERSTALDYVSEKK 451
Db 405 SHPPLVERLAALDEPDCKE 423
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Search completed: December 9, 2005, 03:13:57
Job time : 78.6797 secs

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OM protein - protein search, using sw model

Run on: December 8, 2005, 18:38:35 ; Search time 27.1328 Seconds
(without alignments)
1380.324 Million cell updates/sec

Title: US-09-165-460A-2
Perfect score: 2342
Sequence: 1 MFDLKTLIDHPNIPWKLIIS.....HPTLAERSTALDYVEKKKN 453

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5-COMB.pep.*
2: /cgn2_6/ptodata/1/iaa/6-COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/H-COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/PCFUS-COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/RE-COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2336	99.7	453	2	US-09-538-092-472
2	2336	99.7	472	2	US-09-486-192-3
3	2336	99.7	472	2	US-10-328-459A-3
4	2288.5	97.7	451	2	US-09-184-984-3
5	1239	52.9	490	2	US-09-248-796A-19910
6	903	38.6	474	2	US-09-486-192-4
7	903	38.6	474	2	US-10-328-459A-4
8	653	27.9	474	2	US-09-022-699-2
9	328	14.0	426	2	US-09-486-192-2
10	328	14.0	426	2	US-10-328-459A-2
11	180.5	7.7	397	2	US-09-302-540-13316
12	161.5	6.9	310	2	US-09-328-352-5485
13	158.5	6.8	308	2	US-09-540-236-2093
14	155.5	6.6	321	2	US-09-253-991A-26066
15	147.5	6.3	283	2	US-09-486-192-6
16	147.5	6.3	283	2	US-10-328-459A-6
17	133.5	5.7	298	2	US-09-543-681A-7914
18	125.5	5.4	305	2	US-09-902-540-16700
19	122.5	5.2	299	2	US-09-769-787-106
20	121.5	5.2	302	2	US-09-583-110-4512
21	121.5	5.2	302	2	US-09-107-433-4866
22	119	5.1	299	2	US-09-489-039A-14167
23	111.5	4.8	376	2	US-09-107-532A-6488
24	111.5	4.8	760	2	US-09-833-017B-28
25	110.5	4.7	420	2	US-09-134-001C-3805
26	105	4.5	1427	2	US-09-487-558B-354
27	105	4.5	3200	1	US-08-477-451-8

28	104	4.4	333	2	US-09-393-634-3	Sequence 3, Appli
29	103	4.4	471	2	US-09-830-230A-574	Sequence 574, App
30	103	4.4	490	2	US-09-830-230A-573	Sequence 573, App
31	103	4.4	1101	2	US-09-770-170-8	Sequence 8, Appli
32	101.5	4.3	405	2	US-09-248-796A-17965	Sequence 17965, A
33	101.5	4.3	717	2	US-09-583-110-4629	Sequence 4629, Ap
34	101.5	4.3	721	2	US-09-107-433-2819	Sequence 2819, Ap
35	101	4.3	502	2	US-09-134-000C-6614	Sequence 6614, Ap
36	100.5	4.3	1226	1	US-08-540-804-12	Sequence 12, Appl
37	100.5	4.3	1226	1	US-08-218-265-12	Sequence 12, Appl
38	100.5	4.3	1226	2	US-08-521-872-12	Sequence 12, Appl
39	100.5	4.3	1226	2	US-08-590-399-12	Sequence 5, Appli
40	100	4.3	542	2	US-09-358-383C-5	Sequence 36, Appl
41	100	4.3	1102	2	US-09-358-383C-16	Sequence 16, Appl
42	100	4.3	1107	2	US-09-358-383C-16	Sequence 537, App
43	100	4.3	1228	2	US-09-439-313-537	Sequence 537, App
44	100	4.3	1228	2	US-09-636-215-537	Sequence 537, App
45	100	4.3	1228	2	US-09-685-166A-537	Sequence 537, App

ALIGNMENTS

RESULT 1
US-09-538-092-472
; Sequence 472, Application US/09538092
; Patent No. 6753314
; GENERAL INFORMATION:
; APPLICANT: Giot, Loic
; APPLICANT: Mansfield, Traci A.
; TITLE OF INVENTION: Protein-Protein Complexes and Method of Using Same
; FILE REFERENCE: 15966-542
; CURRENT APPLICATION NUMBER: US/09/538,092
; CURRENT FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: 60/127,352
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/178,965
; PRIOR FILING DATE: 2000-02-01
; NUMBER OF SEQ ID NOS: 1387
; SOFTWARE: CurapSeqFormatter Version 0.9
; SEQ ID NO 472
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Polypeptide Accession Number YJR117M
US-09-538-092-472

Query Match	99.7%	Score	2336	DB 2:	Length	453
Best Local Similarity	99.8%	Pred. No.	8.5e-235	Mismatches	1	Indels
Matches	452	Conservative	0	0	Gaps	0
Qy	1	MFDLKTLIDHPNIPWKLIISGFSIAQSFESYLYTYQYQKLSKLPVLEDEIDDETFH	60			
Db	1	MFDLKTLIDHPNIPWKLIISGFSIAQSFESYLYTYQYQKLSKLPVLEDEIDDETFH	60			
Qy	61	KSRNYSRAKAFSIFGDVYNLAQKLVPIKYDLPPKIWHMAVSLNVLVPRFHMVSTVAQ	120			
Db	61	KSRNYSRAKAFSIFGDVYNLAQKLVPIKYDLPPKIWHMAVSLNVLVPRFHMVSTVAQ	120			
Qy	121	SLCFLGLSLSTLVDLPVLSYSHFVLEKFGFNKLTQVLMITDMIKSLTLAYVIGPIL	180			
Db	121	SLCFLGLSLSTLVDLPVLSYSHFVLEKFGFNKLTQVLMITDMIKSLTLAYVIGPIL	180			
Qy	181	YLFLEKIFDKFPTDFLWYIMVFLFVQVILAMTIIIPVIMPFNKFTPLDGEDGELKKSIESLA	240			
Db	181	YLFLEKIFDKFPTDFLWYIMVFLFVQVILAMTIIIPVIMPFNKFTPLDGEDGELKKSIESLA	240			
Qy	241	DRVGFPLDKIFVIDGSKRSRSHSNAYFTGLPFTSKRIVLFDTLVNSNSTDEITAVLAHEIG	300			
Db	241	DRVGFPLDKIFVIDGSKRSRSHSNAYFTGLPFTSKRIVLFDTLVNSNSTDEITAVLAHEIG	300			

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QY 301 HWQKNHIVNMVIFSQLHTLIFSLFTSIYRNTSFYNTFGFFLEKSTGVSFVDPVITKEFPI 360
DB 301 HWQKNHIVNMVIFSQLHTLIFSLFTSIYRNTSFYNTFGFFLEKSTGVSFVDPVITKEFPI 360
QY 361 IIGFMLFNDLLTPLECAMQFVMSLISRTHHEYQADAYAKKLGKYNLCRALIDLQIKNLST 420
DB 361 IIGFMLFNDLLTPLECAMQFVMSLISRTHHEYQADAYAKKLGKYNLCRALIDLQIKNLST 420
QY 421 MNVDPLYSSYHYSHPTLAERSTALDYVSEKKK 453
DB 421 MNVDPLYSSYHYSHPTLAERSTALDYVSEKKK 453

RESULT 2
US-09-486-192-3
; Sequence 3, Application US/09486192
; Patent No. 6521440
; GENERAL INFORMATION:
; APPLICANT: Estell, David A.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms
; FILE REFERENCE: GC386-US
; CURRENT APPLICATION NUMBER: US/09/486,192
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/US98/18677
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: EP9719637.2
; PRIOR FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 472
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-09-486-192-3

Query Match 99.7%; Score 2336; DB 2; Length 472;
Best Local Similarity 99.8%; Pred. No. 9.1e-235;
Matches 452; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MFDLKTILDHPNIPWKLIISGFSIAQSFESYLTIRYQKLSLTKLPVLEDEIDDETFH 60
DB 1 MFDLKTILDHPNIPWKLIISGFSIAQSFESYLTIRYQKLSLTKLPVLEDEIDDETFH 60
QY 61 KSRNYSRAKAKFSIFGDVYNLAQKLVFIKYDLFPKIHMAVSLNNAVLVPRFHMVSTVAQ 120
DB 61 KSRNYSRAKAKFSIFGDVYNLAQKLVFIKYDLFPKIHMAVSLNNAVLVPRFHMVSTVAQ 120
QY 121 SLCLFLGLSSLTLDVPLSYSHFVLEKFGFNKLTVOLWITDMIKSLTLAYAGGPIL 180
DB 121 SLCLFLGLSSLTLDVPLSYSHFVLEKFGFNKLTVOLWITDMIKSLTLAYAGGPIL 180
QY 181 YLFKIFDKFPTDFLWIMVFLVVOILAMTIIPVIMPMPNFKFTPLEDGELKKSIESLA 240
DB 181 YLFKIFDKFPTDFLWIMVFLVVOILAMTIIPVIMPMPNFKFTPLEDGELKKSIESLA 240
QY 241 DRVGFPDLKIFVIDGSKRSHSNAYFTGLPFTSKRIVLFDTLVNSNSTDEITAVLAHEIG 300
DB 241 DRVGFPDLKIFVIDGSKRSHSNAYFTGLPFTSKRIVLFDTLVNSNSTDEITAVLAHEIG 300
QY 301 HWQKNHIVNMVIFSQLHTLIFSLFTSIYRNTSFYNTFGFFLEKSTGVSFVDPVITKEFPI 360
DB 301 HWQKNHIVNMVIFSQLHTLIFSLFTSIYRNTSFYNTFGFFLEKSTGVSFVDPVITKEFPI 360
QY 361 IIGFMLFNDLLTPLECAMQFVMSLISRTHHEYQADAYAKKLGKYNLCRALIDLQIKNLST 420
DB 361 IIGFMLFNDLLTPLECAMQFVMSLISRTHHEYQADAYAKKLGKYNLCRALIDLQIKNLST 420
QY 421 MNVDPLYSSYHYSHPTLAERSTALDYVSEKKK 453
DB 421 MNVDPLYSSYHYSHPTLAERSTALDYVSEKKK 453

us-09-165-460a-2.ra1

QY 301 HWQKNHIVNMVIFSQLHTLIFSLFTSIYRNTSFYNTFGFFLEKSTGVSFVDPVITKEFPI 360
DB 301 HWQKNHIVNMVIFSQLHTLIFSLFTSIYRNTSFYNTFGFFLEKSTGVSFVDPVITKEFPI 360
QY 361 IIGFMLFNDLLTPLECAMQFVMSLISRTHHEYQADAYAKKLGKYNLCRALIDLQIKNLST 420
DB 361 IIGFMLFNDLLTPLECAMQFVMSLISRTHHEYQADAYAKKLGKYNLCRALIDLQIKNLST 420
QY 421 MNVDPLYSSYHYSHPTLAERSTALDYVSEKKK 453
DB 421 MNVDPLYSSYHYSHPTLAERSTALDYVSEKKK 453

RESULT 3
US-10-328-459A-3
; Sequence 3, Application US/10328459A
; Patent No. 6905868
; GENERAL INFORMATION:
; APPLICANT: Genencor International, Inc.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms
; FILE REFERENCE: GC386-PCT
; CURRENT APPLICATION NUMBER: US/10/328,459A
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: PCT/US98/
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: EP9719637.2
; PRIOR FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 472
; TYPE: PRT
; ORGANISM: S. cerevisiae
US-10-328-459A-3

Query Match 99.7%; Score 2336; DB 2; Length 472;
Best Local Similarity 99.8%; Pred. No. 9.1e-235;
Matches 452; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MFDLKTILDHPNIPWKLIISGFSIAQSFESYLTIRYQKLSLTKLPVLEDEIDDETFH 60
DB 1 MFDLKTILDHPNIPWKLIISGFSIAQSFESYLTIRYQKLSLTKLPVLEDEIDDETFH 60
QY 61 KSRNYSRAKAKFSIFGDVYNLAQKLVFIKYDLFPKIHMAVSLNNAVLVPRFHMVSTVAQ 120
DB 61 KSRNYSRAKAKFSIFGDVYNLAQKLVFIKYDLFPKIHMAVSLNNAVLVPRFHMVSTVAQ 120
QY 121 SLCLFLGLSSLTLDVPLSYSHFVLEKFGFNKLTVOLWITDMIKSLTLAYAGGPIL 180
DB 121 SLCLFLGLSSLTLDVPLSYSHFVLEKFGFNKLTVOLWITDMIKSLTLAYAGGPIL 180
QY 181 YLFKIFDKFPTDFLWIMVFLVVOILAMTIIPVIMPMPNFKFTPLEDGELKKSIESLA 240
DB 181 YLFKIFDKFPTDFLWIMVFLVVOILAMTIIPVIMPMPNFKFTPLEDGELKKSIESLA 240
QY 241 DRVGFPDLKIFVIDGSKRSHSNAYFTGLPFTSKRIVLFDTLVNSNSTDEITAVLAHEIG 300
DB 241 DRVGFPDLKIFVIDGSKRSHSNAYFTGLPFTSKRIVLFDTLVNSNSTDEITAVLAHEIG 300
QY 301 HWQKNHIVNMVIFSQLHTLIFSLFTSIYRNTSFYNTFGFFLEKSTGVSFVDPVITKEFPI 360
DB 301 HWQKNHIVNMVIFSQLHTLIFSLFTSIYRNTSFYNTFGFFLEKSTGVSFVDPVITKEFPI 360
QY 361 IIGFMLFNDLLTPLECAMQFVMSLISRTHHEYQADAYAKKLGKYNLCRALIDLQIKNLST 420
DB 361 IIGFMLFNDLLTPLECAMQFVMSLISRTHHEYQADAYAKKLGKYNLCRALIDLQIKNLST 420
QY 421 MNVDPLYSSYHYSHPTLAERSTALDYVSEKKK 453
DB 421 MNVDPLYSSYHYSHPTLAERSTALDYVSEKKK 453

RESULT 4
US-09-184-964-3
; Sequence 3, Application US/09184964
; Patent No. 6391574
; GENERAL INFORMATION:
; APPLICANT: Rine, Jasper D.
; APPLICANT: Boyartchuk, Victor L.
; APPLICANT: Ashby, Matthew N.
; TITLE OF INVENTION: AFCl AND RCEl; ISOPRENVLATED CAAX
; TITLE OF INVENTION: PROCESSING ENZYMES
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 2200 Sand Hill road, suite 100
```

CITY: Menlo Park
STATE: CA
COUNTRY: USA
ZIP: 94025
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/184.964
FILING DATE: 03-NOV-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/902,774
FILING DATE: 30-JUL-1997
APPLICATION NUMBER: 60/023,491
FILING DATE: 07-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: Suvat, Reginald J.
REGISTRATION NUMBER: 28,172
REFERENCE/DOCKET NUMBER: 09272-006004
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/322-5070
TELEFAX: 650/854-0875
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 451 amino acids
TYPE: amino acid
TOPOLOGY: unknown
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: peptide
LOCATION: 1...451
OTHER INFORMATION: /note = "The sequence of the Afclp protein from yeast presented as a polypeptide sequence"
US-09-184-964-3

Query Match 97.7%; Score 2288.5; DB 2; Length 451;
Best Local Similarity 98.9%; Pred. No. 7.6e-230;
Matches 446; Conservative 0; Mismatches 4; Indels 1; Gaps 1;
Qy 1 MFDLKTLDHNPWKLIISGFSIAQSFESYLYRQYQKLSLTPVLEDEIDDETFH 60
Db 1 MFDLKTLDHNPWKLIISGFSIAQSFESYLYRQYQKLSLTPVLEDEIDDETFH 60
Qy 61 KSRNYSRAKAFSIFGDVYNLAQKLVFIKYDLFPKIHMAVSLNNAVLPRFHMVSTVAQ 120
Db 61 KSRNYSRAKAFSIFGDVYNLAQKLVFIKYDLFPKIHMAVSLNNAVLPRFHMVSTVAQ 120
Qy 121 SLCLFGLLSLSTLVDPLSYSHFVLEKEFGFNKLTIVQILAMTIIIPVIMPENKFTPLEDGELKKSIESLA 180
Db 121 SLCLFGLLSLSTLVDPLSYSHFVLEKEFGFNKLTIVQILAMTIIIPVIMPENKFTPLEDGELKKSIESLA 180
Qy 181 YLFELKIFDKPPTDFLWYIMVFLFVQILAMTIIIPVIMPENKFTPLEDGELKKSIESLA 240
Db 181 YLFELKIFDKPPTDFLWYIMVFLFVQILAMTIIIPVIMPENKFTPLEDGELKKSIESLA 240
Qy 241 DRVGFPDLKIFVIDGSKSSHSNAYFTGLPFTSKRIVLFDLTVNSNSTDEITAVLAHEIG 300
Db 241 DRVGFPDLKIFVIDGSKSSHSNAYFTGLPFTSKRIVLFDLTVNSNSTDEITAVLAHEIG 300
Qy 301 HWQKHHVNMVIFSQLHTFLIFSLFTSIYRNTSFYNTGPFLEKSTG-SFVDPVITKEFP 359
Db 301 HWQKHHVNMVIFSQLHTFLIFSLFTSIYRNTSFYNTGPFLEKSTG-SFVDPVITKEFP 360
Qy 360 IIGFMLENDLLTPLECAQFVMSLISRTHEYQADAYAKKGYKQNLCLALIDLIQKLS 419
Db 361 IIGFMLENDLLTPLECAQFVMSLISRTHEYQADAYAKKGYKQNLCLALIDLIQKLS 420
Qy 420 TMNVDPVLSYSHYSHPTLAERSTALDYVSEK 450
Db 421 TMNVDPVLSYSHYSHPTLAERSTALDYVSEK 451

RESULT 5
US-09-248-796A-19910
; Sequence 19910, Application US/09248796A
; Patent No. 6747137
; GENERAL INFORMATION:
; APPLICANT: Keith Weinstein et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/09/248,796A
; PRIOR FILING DATE: 1999-02-12
; PRIOR APPLICATION NUMBER: US 60/074,725
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: US 60/096,409
; PRIOR FILING DATE: 1998-08-13
; NUMBER OF SEQ ID NOS: 28208
; SEQ ID NO 19910
; LENGTH: 490
; TYPE: PRT
; ORGANISM: Candida albicans
US-09-248-796A-19910
Query Match 52.9%; Score 1239; DB 2; Length 490;
Best Local Similarity 54.1%; Pred. No. 2.4e-120;
Matches 242; Conservative 68; Mismatches 117; Indels 20; Gaps 4;
Qy 8 LDHPNIPWKLIISGFSIAQSFESYLYRQYQKLSLTPVLEDEIDDETFHKSRYNR 67
Db 56 LQSPSINWKTIIIVGTIGQYFFETYLDRQYRVLQKLTAPKSIKEVQSQETFDKSQYVR 115
Qy 68 AKAKFSIFGDVYNLAQKLVFIKYDLFPKIHMAVSLNNAVLPRFHMVSTVAQSLCF 124
Db 116 AKAQSFVSSTFSLQNLALFKYDLTPKTLTLAGTINKSSAAVLPKA--MSGVITQSLFF 173
Qy 125 LGLLSLSTLVDPLSYSHFVLEKEFGFNKLTIVQILAMTIIIPVIMPENKFTPLEDGELKKSIESLA 184
Db 174 VFTTQILTLGLPLSYSHFVLEKEFGFNKLTIVQILAMTIIIPVIMPENKFTPLEDGELKKSIESLA 233
Qy 185 KIFDKPPTDFLWYIMVFLFVQILAMTIIIPVIMPENKFTPLEDGELKKSIESLA 244
Db 234 KIIDYFDKPIFYLMGFILVNMVLIAMTIIIPVIMPENKFTPLEDGELKKSIESLA 293
Qy 245 PFLDKIFVIDGSKSSHSNAYFTGLPFTSKRIVLFDLTVNSNSTDEITAVLAHEIGHWQK 304
Db 294 PFLDKIFVIDGSKSSHSNAYFTGLPW-SKQIVLFDLTVNLSNSTDEITAVLAHEIGHWKL 352
Qy 305 NHIYNMVIFSQLHTFLIFSLFTSIYRNTSFYNTGPFLEKSTGSGFVDPVITKEPPIIGF 364
Db 353 NHIYNMVIFSQLHTFLIFSLFTSIYRNTSFYNTGPFLEKSTGSGFVDPVITKEPPIIGF 398
Qy 365 MLFNDLLTPLECAQFVMSLISRTHEYQADAYAKKGYKQNLCLALIDLIQKLSLSTNMVD 424
Db 399 MLFNDIFQPVCECLTFVNLISRKHEYADKYASDCGYSELSRSLIKLSNENLSSMNAD 458
Qy 425 PLYSSYHYSHPTLAERSTALDYVSEK 451
Db 459 WLFSSYHYSHPTLAERSTALDYVSKVK 485

RESULT 6
US-09-486-192-4
; Sequence 4, Application US/09486192
; Patent No. 6521440
; GENERAL INFORMATION:
; APPLICANT: Estell, David A.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms
; FILE REFERENCE: GC386-US
; CURRENT APPLICATION NUMBER: US/09/486,192
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/US98/18677
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: EP9719637.2

```

; PRIOR FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 474
; TYPE: PRT
; ORGANISM: Schizocaccharomyces pombe
US-09-486-192-4

Query Match
Best Local Similarity 40.4%; Pred. No. 2.6e-85;
Matches 184; Conservative 96; Mismatches 153; Indels 22; Gaps 6;

QY 4 LKTLDPHPNIPWKLIISGFSIAQSFESYLTIRYQKLSLTKSETKLPVLEDEIDDETHKSR 63
DB 37 LMHILDPGPPKIVIAAGSICKYAWDLYLRRRQVPLLREKPPALAEHVDEKKYQKAL 96
QY 64 NYSRKAKFSIFGDVYNLAQKLVFIKYDLFPKIHMA----VSLNNAVLPVRFHVMSTVA 119
DB 97 SYARDKSWFSTIVSTFTLAVDLLIIKYDGLSYLWNITKPPWMDKL-AASSSRFSLSTSI 155
QY 120 QSLCFLGLSSLSLTVLDPLSYSHFVLEKFGFNKLTVOLWITDMIKSLTLAYAI GGPI 179
DB 156 HSCVFMFGLTLFSRLIQIPFNLYSTFVIEKYGFNKSTLKFIVIDLKLSLGLLMSV 215
QY 180 LYLFLKIPDKPPTDFLWIMVFLVVOILAMTIIIPVIMPENKFTPLEDGELKKSIESL 239
DB 216 VGVFVKILT KFGDNFIMYAWGAYIVFGLIQTAPSLIMPLFYKFTPLENGSLRTOIEEL 275
QY 240 ADRVGPPDKLFIIDGSKRSHSNAYFTGLPFTSKRIVLFDTLVNSNSTDEITAVLAHEI 299
DB 276 AASINFLPKLVYIDASRRSTHNAFFYGLPW-NKGIVLFDTLVKNHTEPELIAIGHL 334
QY 300 GHQKKNH-IVNMVIFSQLHTFLIPSITSYRNTSFYNTFGPFLEKSTGSGFVDPVITKEF 358
DB 335 GHWMYSHNLINTIIDYGMSLFHLF-LFAAFIRNNSLYTSFNITEK----- 379
QY 359 PIIGFMFLNDLLTPLECAMQFVMSLISRTHYQADAYAKKLYKQNLCLRALIDLOIKNL 418
DB 380 PVIUGLLFSDALGPLSSILTFASNKVSRLCEYQADAFKQYAKDLGDLGRLIRHDDNL 439
QY 419 STMNVDPVLSYSHYSHPTLAERSTALDYVSEKKN 453
DB 440 SPLEFDSLYTSYHSHPIVLDRLNAIDYTLTKNN 474

RESULT 8
US-09-022-699-2
; Sequence 2, Application US/09022699
; Patent No. 6060277
; GENERAL INFORMATION:
; APPLICANT: KIKLY, KRISTINE
; APPLICANT: SOUTHAN, CHRISTOPHER
; APPLICANT: KNAB, ANNE
; TITLE OF INVENTION: Human AFC1
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RATNER & PRESTIA
; STREET: P.O. BOX 980
; CITY: VALLEY FORGE
; STATE: PA
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/022,699
; FILING DATE: 12-FEB-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 97304440.7
; FILING DATE: 12-JUN-97
; ATTORNEY/AGENT INFORMATION:
; NAME: PRESTIA, PAUL F
; REGISTRATION NUMBER: 23,031
; REFERENCE/DOCKET NUMBER: GH-70380
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-407-0700
; TELEFAX: 610-407-0701
; TELEX: 846169
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 474 amino acids
; TYPE: amino acid
;

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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-022-699-2

Query Match      27.9%; Score 653; DB 2; Length 474;
Best Local Similarity 34.7%; Pred. No. 3e-59;
Matches 161; Conservative 73; Mismatches 168; Indels 62; Gaps 8;

Qy 22 FSIQSFESLYTYRQ---YQKLSETKPLPVLDEIDDETRPHKSRNYSRAKAKFSIFGDV 78
Db 26 FSWTVVWETFLAQRRIYK--TTTHVPPELQIMDSSEPKSRLYQLDKSTFSEWGL 83
Qy 79 YNLAQKLVFIKYDLFPKIHWMMAVSLNVLVRFHVMVSTVAQSLCFGLGLSLSLTLDLP 138
Db 84 YSETEGTLILLFGGIPYLWRLSGRCGY---AGFGPEYEITQSLVFLLLATLFSALTGLP 140
Qy 139 LSYSHFVLEKEKGFENKLTQVQWITDMIKSLTLAYAGGPILYFLKIFDKPPTDFLWVI 198
Db 141 WSLYNTFVIEERGFNQOTLGFMRDAIKKFFVVTQCILLPVSSLLYIIKIGDYFFIYA 200
Qy 199 MVFLFVQIILAMTIIIVFIMPENKPTPLEDGEKKSIESLADRVGFPPLDKIFVIDGSKR 258
Db 201 WLFTLVSLVLVIYADYAPLFDKFTPLPEGKKEEIEVMAKSIDFPLTKVYVVEGSKR 260
Qy 259 SSHSNAYFTGLPFTSKRIVLFDTLVNSNS----- 287
Db 261 SSHSNAYFYGF-FPNKRIVLFDTLLEYSVLNKDIOEDSCMEPRNEEGNSEIKAKVKN 319
Qy 288 -----TDEITAVLAHEIGHQWKHIVNMVIFSQHTFLIFSLFTSIYRNTSFYNTGFF 341
Db 320 KQCGCKNEEVLAVGLHGHW-KWDIQSKISILAREFFVFFLFAVLIGRKELFAAFGY 378
Qy 342 LERSTGSGFVDPVITKEPPIIIGFM-LFNDLLTPLECAMQFVMSLISRTHEYQADAYAKKL 400
Db 379 DSQ-----PTLIGLLIIFQIFSPYNEVLSFCITVLSRREFQADAFAKL 424
Qy 401 GYKQNLCRALIDLQIKNLSTMVNDPLSYSHYSHPTLAERSTAL 444
Db 425 GKAKDLYSALIKLNDKNGFPVSDWLFMSWHYSHPPLLERLQAL 468

RESULT 9
US-09-486-192-2
; Sequence 2, Application US/09486192
; Patent No. 6521440
; GENERAL INFORMATION:
; APPLICANT: Estell, David A.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms
; FILE REFERENCE: GC386-US
; CURRENT APPLICATION NUMBER: US/09/486,192
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/US98/18677
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: EP9719637.2
; PRIOR FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 426
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-09-486-192-2

Query Match      14.0%; Score 328; DB 2; Length 426;
Best Local Similarity 26.9%; Pred. No. 2e-25;
Matches 108; Conservative 76; Mismatches 152; Indels 66; Gaps 14;

Qy 81 LAQKLVFIKYDLF---PKIWHMAVSL-----NAVLPVRHVMSTVAQSLCF 124
Db 53 VAEQYSNVKNFLFFIGVPLDWFVLLVSGVSKKIKKIEAAVPRF-----LOTG 106
Qy 125 LGLLSLSTLVDLPISYSHVLEKEKGFENKLTQVQWITDMIKSLTLAYAGG---PILY 181
Db 107 VFVLSLITLTLPLDMIGYQVSLD-YNISTQTTSMAKQDVISFWISPIFTLCVLV 165
Qy 182 LFLKIFDKPPTDFLWIMV---FLFVVOILAMTIIIVFIMPENKFTPLEDGEKKSIE 237
Db 166 WLKIRHEKKWLYAWLLTVFSLFLFIQ-----PVIIDPLNDYDFPLKKELESKIL 218
Qy 238 SLADRVGFPPLDKIFVIDGSKRSHSNAYFTGLPFTSKRIVLFDTLVNSNSTDEITAVLAH 297
Db 219 ELADEANI PADHVYEVNMSEKTNALNAYVTGIG-ANKRIVLMDTTLINKLDDSEILFIMGH 277
Qy 298 EIGHQWKHIVNMVIFSQHTFLIFSL-----FTSIYRNTSFYNTGFFLEKSTGSGFVDP 352
Db 278 EMGHVYMKH-----VVIAGLAVLLVSLAGFYVDIKLYKGTVTRLSMFLHEGRHDLAALP 332
Qy 353 VITKEPPIIIGFMFLNDLLTPLECAMQFVMSLISRTHEYQADAYAKKL-GYKQNLCRALI 411
Db 333 L-----LLLLFSVLSPAVTPFSNA-----VSRYOENKADQYGIELTENREAAVKTQ 379

RESULT 10
US-10-328-459A-2
; Sequence 2, Application US/10328459A
; Patent No. 6905868
; GENERAL INFORMATION:
; APPLICANT: Genencor International, Inc.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms
; FILE REFERENCE: GC386-PCT
; CURRENT APPLICATION NUMBER: US/10/328,459A
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: PCT/US98/
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: EP9719637.2
; PRIOR FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 426
; TYPE: PRT
; ORGANISM: Bacillus subtilis
US-10-328-459A-2

Query Match      14.0%; Score 328; DB 2; Length 426;
Best Local Similarity 26.9%; Pred. No. 2e-25;
Matches 108; Conservative 76; Mismatches 152; Indels 66; Gaps 14;

Qy 81 LAQKLVFIKYDLF---PKIWHMAVSL-----NAVLPVRHVMSTVAQSLCF 124
Db 53 VAEQYSNVKNFLFFIGVPLDWFVLLVSGVSKKIKKIEAAVPRF-----LOTG 106
Qy 125 LGLLSLSTLVDLPISYSHVLEKEKGFENKLTQVQWITDMIKSLTLAYAGG---PILY 181
Db 107 VFVLSLITLTLPLDMIGYQVSLD-YNISTQTTSMAKQDVISFWISPIFTLCVLV 165
Qy 182 LFLKIFDKPPTDFLWIMV---FLFVVOILAMTIIIVFIMPENKFTPLEDGEKKSIE 237
Db 166 WLKIRHEKKWLYAWLLTVFSLFLFIQ-----PVIIDPLNDYDFPLKKELESKIL 218
Qy 238 SLADRVGFPPLDKIFVIDGSKRSHSNAYFTGLPFTSKRIVLFDTLVNSNSTDEITAVLAH 297
Db 219 ELADEANI PADHVYEVNMSEKTNALNAYVTGIG-ANKRIVLMDTTLINKLDDSEILFIMGH 277
Qy 298 EIGHQWKHIVNMVIFSQHTFLIFSL-----FTSIYRNTSFYNTGFFLEKSTGSGFVDP 352
Db 278 EMGHVYMKH-----VVIAGLAVLLVSLAGFYVDIKLYKGTVTRLSMFLHEGRHDLAALP 332
Qy 353 VITKEPPIIIGFMFLNDLLTPLECAMQFVMSLISRTHEYQADAYAKKL-GYKQNLCRALI 411
Db 333 L-----LLLLFSVLSPAVTPFSNA-----VSRYOENKADQYGIELTENREAAVKTQ 379

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Qy 358 --FPILIGFMLENDLLTLECAMQFVMSLSIRTHEYQADAYAKKLGKYNLCRALIDL-- 413
Db 203 PGIAFYVTSVMVDLIGLILASA--IVMFRSLREYRADEMGARLAGRDKMISALNALRP 259
Qy 414 -----QIKNLSTMNVDPLYSYHYSHPTLAERSTAL 444
Db 260 AEAPDQMPKAMKAFIAISGOSQGS-----IASLFRSHPTLDDRIASL 303

RESULT 14
US-09-252-991A-26066
; Sequence 26066, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26066
; LENGTH: 321
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26066

Query Match 6.6%; Score 155.5; DB 2; Length 321;
Best Local Similarity 23.2%; Pred. No. 1.3e-07;
Matches 77; Conservative 53; Mismatches 133; Indels 69; Gaps 13;
Qy 145 FVLEKFGFKNLTVQLWITDMIKSLTAYAGGPIYLFLKIF--DKFPTDFLWYIMVFL 202
Db 22 FSREKL-YTMRILLFLATNLAVLIA-----SITLKLGVDRGTGQNYGSLLVFC 72
Qy 203 FVVOILAMTIIPVFMFMPNFKFTPLDGE-----LKKIESLADRVGFPLDK 249
Db 73 AVFG-FAGSLVSLFISKWAK--MSTGTEVISQPRTRHKWLLQTVEELSREAGIKMPE 128
Qy 250 IFVIGSKRSSHNAFYGLPTSKRIVLFDTLVNSNSTDEITAVLAHEIGHWQKHVN 309
Db 129 V----GIFPAYEANAFATGWNKNALVAVSQGLERFSPDEKAVLAHEIGHVANGDMVT 184
Qy 310 MVFSQLHTFLIFSLFTSIYRNTSFYNTGFFLEKSTGTSFVDPVITK--EPFIIIGFM-- 365
Db 185 LALIQ-----GVNTFVMEFAIFGNFVDKAILKNEDEGPGIGYFVAT 226
Qy 366 LPNDLLTLECAMQFVMSLSIRTHEYQADAYAKKLGKYNLCRALIDLQ-----IKNLS 419
Db 227 IFAEUV--LGILASIIVMWFSRFRADAGAHLAGTGMATIAALQRLRSEQGVQVQMPD 284
Qy 420 TNVDPLYSYHY-----SPTLAERSTAL 444
Db 285 TLNFAFGINGGLKHLGAGLMLSHPPLEDRIEAL 316

RESULT 15
US-09-486-192-6
; Sequence 6, Application US/09486192
; Patent No. 6521440
; GENERAL INFORMATION:
; APPLICANT: Batell, David A.
; TITLE OF INVENTION: Proteases From Gram-Positive Organisms
; FILE REFERENCE: GC386-US
; CURRENT APPLICATION NUMBER: US/09/486,192
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/US98/18677
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: EP9719637.2

; PRIOR FILING DATE: 1997-09-15
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 283
; TYPE: PRT
; ORGANISM: Haemophilis influenza
US-09-486-192-6
Query Match 6.3%; Score 147.5; DB 2; Length 283;
Best Local Similarity 26.5%; Pred. No. 7.3e-07;
Matches 73; Conservative 42; Mismatches 101; Indels 59; Gaps 12;
Qy 198 IMVFLFVVQILAMTIIPVFMFMPNFKFTPLDGE-----LKKIESLADRV 243
Db 37 IMALLFG---FAGSLISLFL-----SKTMALRSVDGEVITQPRNQTWRWLDITVSRQAQA 89
Qy 244 GFPLDKIFVIDGSKRSSHNAFYGLPTSKRIVLFDTLVNSNSTDEITAVLAHEIGHWQ 303
Db 90 GIPMPDVAIY---HSPDVNAFATGATKSNLSLAVSTGLLNMNMTAEAEAVLAHEISHIS 145
Qy 304 KKHIVNMVIP-SQLHTFLIF-----SLFTSIYRNTSFYNTGFFLEKSTGTSFVDPVITKE 357
Db 146 NGDMVTMALQGVLTTFVILSRVIATAVASSRNNNGEET-----RSSGIYFLVSMVLE 199
Qy 358 FPIIIGFMLENDLLTLECAMQFVMSLSIRTHEYQADAYAKKLGKYNLCRALIDLQ--- 414
Db 200 -----MLFGVLASII--AMWF-----SRVREFRADAGSASLVGKCKMIALQRLQOLH 245
Qy 415 -----IKNLSTMNVDPLYSSYHYSHPTLAERSTAL 444
Db 246 EPQNLGSLNAPFMINGKRSELFMSHPPLEKRIEAL 280

Search completed: December 9, 2005, 03:03:08
Job time : 29.1328 secs

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